

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008**B.D.S. DEGREE EXAMINATION – DECEMBER 2022****SECOND BDS EXAMINATION****GENERA & DENTAL PHARMACOLOGY & THERAPEUTICS***(NR & OR)*

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

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- 1) Classify Glucocorticoids. List their medical and dental uses **3+3+2+1=9**
 - 2) Classify Local Anesthetics. Define their mechanism of action **3+3+3=9**
enumerate the uses of Lignocaine in dentistry
 - WRITE SHORT NOTES ON :** **8x4**
 - 3) Therapeutic uses of Anticholinesterases
 - 4) Nitroglycerine (Glyceryl trinitrate)
 - 5) Heparin
 - 6) Insulin preparations
 - 7) Drug antagonism
 - 8) Management of Thyrotoxicosis
 - 9) Bleaching agents
 - 10) Rifampicin
 - WRITE BRIEFLY ON :** **10X2=20**
 - 11) Define first order kinetics; give an example
 - 12) Name two proton pump inhibitors; mention two uses
 - 13) Name two neuromuscular blockers (One each from different group)
mention one use for each
 - 14) Name two chelating agents, mention one use for each
 - 15) Name two mummifying agents, mention one use and one adverse effects
 - 16) Name two fat soluble vitamins; mention one deficiency state for each
 - 17) Name two third generation cephalosporins; mention two uses
 - 18) Mention four commonly used antiseptics in dentistry
 - 19) Drug therapy of acute severe asthma (Status asthmatics)
 - 20) Name four common adverse effects associated with cancer chemotherapy

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B.D.S. DEGREE EXAMINATION – JUNE, 2022

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS*(NR & OR)*

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

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- 1) Enumerate the systemic routes of drug administration giving one example for each route. Mention four merits and four demerits of intramuscular route. **3+3+2+1=9**
- 2) Classify semisynthetic penicillin, Outline their mechanism of action, Enumerate four medical and two dental uses of amoxicillin **5+2+2=9**
- WRITE SHORT NOTES ON :** **8x4**
- 3) Cardio selective B-blockers
- 4) Calcium channel blockers
- 5) Clinical uses of antihistaminic
- 6) Radioactive iodine
- 7) Vitamin –D
- 8) Ibuprofen
- 9) Disclosing agents
- 10) Styptics
- WRITE BRIEFLY ON :** **10X2=20**
- 11) Define pharmacogenetics; give one example
- 12) Name two inhaled glucocorticoids; mention two advantages
- 13) Name four drugs useful in the treatment of status epilepticus
- 14) Name two osmotic purgatives, mention two uses
- 15) Name two water soluble vitamins; mention one deficiency state for each
- 16) Mechanism of action of fluorides as anticaries agents
- 17) DOTS therapy of tuberculosis
- 18) Mention four intravenous general anesthetic agents
- 19) Name four antiplatelet drugs
- 20) Name one anticancer antimetabolite, mention two uses.

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

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- 1) Name the broad spectrum , Discuss the mechanism of action, adverse effects, therapeutics uses of tetracyclines. **3+3+2+1=9**
- 2) Classify antihypertensive drugs. Describe the mechanism of action adverse, effects and uses of angiotensin converting enzyme **5+2+2=9**
- WRITE SHORT NOTES ON :** **8x4**
- 3) Bioavailability
- 4) Atropine
- 5) Frusemids
- 6) Pre anesthetic medication
- 7) Lignocaine
- 8) Morphine
- 9) Common adverse effects of anticancer drugs
- 10) Omeprazole
- WRITE BRIEFLY ON :** **10X2=20**
- 11) Mention two dentifrices and their uses
- 12) Dimercaprol (BAL)
- 13) Mention two use and two adverse effects of insulin
- 14) Mention two uses and two adverse effects of metronidazole
- 15) Vitamin K
- 16) Topical antibiotics
- 17) Promethazine
- 18) Mention two antianxiety drug
- 19) Mention two drug that cause gingival hyperplasia
- 20) Mention two advantages and two disadvantages of IV route of drug administration .

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B.D.S. DEGREE EXAMINATION – APRIL 2021

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS*(NR & OR)*

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify penicillin's, Write mechanism of action, uses and adverse effects of ampicillin. **3+3+2+1=9**

2) Enumerate Non steroidal Anti Inflammatory drug (NSAIDs) Pharmacological actions, adverse effects and therapeutic use of aspirin **5+2+2=9**

WRITE SHORT NOTES ON :**8x4**

3) Calcium channel blockers

4) Plasma protein binding of drugs

5) Phenytoin

6) Thiazide diuretics

7) Cetrizine

8) Rifampicin

9) Styptics

10) Ranitidine

WRITE BRIEFLY ON :**10X2=20**

11) Name two teratogenic drugs

12) Mention two advantages and two disadvantages of oral route of drug administration

13) Mention two drugs used in angina pectoris

14) Name four drugs used in Glaucoma

15) Paracetamol

16) Name four drugs used in bronchial asthma

17) Mention one oral and one parenteral iron preparation

18) Mention two indications and two adverse effects of gentamycin

19) Mention four uses of corticosteroids

20) Name two fat soluble vitamins with one use for each

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B.D.S. DEGREE EXAMINATION – NOVEMBER, 2020

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS*(NR & OR)*

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify Anticholinergics, Enumerate the clinical uses, adverse effects and contraindications of atropine **3+3+2+1=9**

2) Classify Antihypertensives, Enumerate the uses and adverse effects of ACE (Angiotensin converting enzyme) inhibitors. **5+2+2=9**

WRITE SHORT NOTES ON :**8x4**

- 3) Metronidazole
- 4) Aspirin
- 5) Iron preparations
- 6) Intravenous route of drug administration
- 7) Bronchodilators
- 8) Isoniazid (INH)
- 9) Dentifrices
- 10) Sulfonylureas

WRITE BRIEFLY ON :**10X2=20**

- 11) What is physiological antagonism, give one example
- 12) Name two calcium preparations, mention two uses
- 13) Name four drugs useful in treating lepra reactions
- 14) Mention four advantages of Diazepam over phenobarbitone as a hypnotic
- 15) Explain the rationale of combining lignocaine and adrenaline
- 16) Name four antiretroviral drugs
- 17) Name four topical antifungal drugs
- 18) Mention two uses and two adverse effects of Morphine
- 19) Mechanism of action and two uses of ciprofloxacin
- 20) Name two nasal decongestants, mention one use and one adverse effect.

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B.D.S. DEGREE EXAMINATION – JANUARY, 2020

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify sympathomimetics. Write the Pharmacological action, uses and adverse effects of Adrenaline. $3+1+3+2=9$

2) Classify Diuretics. Write the mechanism of action, uses and adverse effects of Furosemide $3+2+2+2=9$

WRITE SHORT NOTES ON: $8 \times 4 = 32$

3) Factors affecting Oral Drug Absorption

4) Combined effects of drugs

5) Chlorpromazine uses and side effects

6) Name Calcium channel blockers and its uses

7) Tetracyclines – uses, mechanism of action and side effects

8) Low Molecular Weight Heparin

9) Proton pump Inhibitors

10) Radio Active Iodine

WRITE BRIEFLY ON: $10 \times 2 = 20$

11) Doxycycline

12) Dapsone

13) Vitamin K

14) Fluconazole

15) Metformin

16) Metoprolol

17) Disclosing Agents

18) Obtundents

19) Vancomycin

20) Folic Acid

Q.P.CODE:420/403

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B.D.S. DEGREE EXAMINATION – JANUARY, 2019

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Enumerate Drugs used in Peptic Ulcers. Discuss the MOA uses and ADR of H₂ blockers. Add a note on treatment of H. Pylori infection. 3+2+2+2=9

2) Classify Beta Lactam Antibiotics. Discuss the pharmacology of Amoxicillin. Mention the dose and regimen for a patient with mitral valve prolapse undergoing dental extraction. 3+3+3=9

WRITE SHORT NOTES ON:

8x4=32

- 3) Bioavailability
- 4) Tachyphylaxis
- 5) Methotrexate
- 6) Non sedative antihistamines
- 7) Newer Macrolides
- 8) Metformin
- 9) Oral anti coagulants
- 10) Uses and ADR of Corticosteroids

WRITE BRIEFLY ON:

10x2=20

- 11) Emla (Eutectic Mixture of Local Anaesthetic)
- 12) Mention two intravenous general anaesthetics
- 13) Acarbose
- 14) Midazolam
- 15) Sublingual route of administration
- 16) Clavulanic acid
- 17) Rifampicin
- 18) Fluconazole
- 19) Oxidizing agents
- 20) Domperidone

420/403

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2018

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify Anti Epileptic Drugs. Write the mechanism of action, uses and side effects of Phenytoin. $3+1+2+3=9$

2) Classify Aminoglycoside Antibiotics. Write the mechanism of action, uses and adverse effects of Gentamicin. $3+1+2+3=9$

WRITE SHORT NOTES ON:

$8 \times 4 = 32$

3) Routes of Drug Excretion

4) Name any four non-steroidal anti-inflammatory drugs and their uses

5) Pancuronium

6) Intravenous Anaesthetics

7) Prazosin

8) Name Coagulants and their uses

9) Uses of Hydrochlorothiazide

10) Side effect of Anti Cancer Drugs

WRITE BRIEFLY ON:

$10 \times 2 = 20$

11) Uses of Morphine

12) Pilocarpine

13) Dobutamine

14) Uses of Nitrates

15) Propyl Thiouracil

16) Uses of Vitamin D

17) Imipramine uses

18) Bleaching Agents

19) Name Mouth Washes and its uses

20) Beta Lactamase inhibitors and its uses

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B.D.S. DEGREE EXAMINATION – JANUARY, 2018

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify local anaesthesia. Explain the mechanism of action and therapeutic uses of lignocaine. $4+3+2=9$

2) Classify Analgesics. Describe the mechanism of action, uses and adverse effects of Aspirin. $3+2+2+2=9$

WRITE SHORT NOTES ON:

$8 \times 4 = 32$

- 3) Drug Intolerance
- 4) Anti histamines
- 5) Insulin preparations
- 6) Rifampicin
- 7) Preanaesthetic Medication
- 8) List of emergency drugs in Dentistry
- 9) Mechanism of action of Benzodiazepines and their adverse effects
- 10) Oral anticoagulants

WRITE BRIEFLY ON:

$10 \times 2 = 20$

- 11) Name four anti emetics
- 12) Four examples of dentifrices
- 13) Adverse effects of Tetracycline
- 14) Four bactericidal drugs used in Tuberculosis
- 15) Mention four intravenous general anaesthetic agents
- 16) Topical antibiotics
- 17) Therapeutic Index
- 18) Name four drugs used in hypertensive emergencies
- 19) Mummifying agents
- 20) Mechanism of action and two uses of Ciprofloxacin

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Enumerate Penicillins. Write the mechanisms of action and uses of penicillins. 4+3+2=9

2) Classify Corticosteroids. Explain the mechanism of action, uses and adverse drug reactions. 3+2+2+2=9

WRITE SHORT NOTES ON:8x4=32

- 3) Adrenaline
- 4) Antagonism
- 5) Beta 2 agonists
- 6) Side effects of Digoxin and its treatment
- 7) Sodium Valproate
- 8) Techniques of Local anesthesia with examples
- 9) Prokinetic agents
- 10) Drugs used in Halitosis

WRITE BRIEFLY ON:10x2=20

- 11) Four adverse effects of Fentanyl
- 12) Midazolam
- 13) Sucralfate
- 14) Oxythiamine
- 15) Cefixime
- 16) Glimepiride.
- 17) Sweetening agents
- 18) Azithromycin
- 19) Low dose Aspirin
- 20) Codeine

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B.D.S. DEGREE EXAMINATION – JANUARY, 2017

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Discuss adverse drug reaction monitoring and Pharmacovigilance. 4+5=9

2) Classify opioid and non opioid analgesics. Describe the action, adverse effects and uses of Aspirin. 5+2+1+1=9

WRITE SHORT NOTES ON:

8x4=32

3) Therapeutic uses and adverse effects of α (alpha) blockers

4) Tolerance

5) List preparations of insulin

6) Classify local anaesthetics and mechanism of action.

7) Bisphosphonates

8) Methotrexate

9) Obtundents

10) Vaccines for dentists

WRITE BRIEFLY ON:

10x2=20

11) Patient compliance

12) First line of drugs used in leprosy

13) What are anabolic steroids? Give two examples.

14) Dihydropyridine calcium channel blockers

15) Oral anticoagulants

16) Name two H₂ receptor blockers and two indications.

17) Adverse effects of aminoglycosides

18) Four examples of dentifrices

19) Antiseptics

20) Styptics

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B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2016

SECOND BDS EXAMINATION

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

2) Discuss various routes of Drug Administration with examples. 9

3) Classify Penicillins and write mechanism of action, uses and adverse effects of amoxicillin 3+2+2+2=9

WRITE SHORT NOTES ON:

8x4=32

4) Oral rehydration salts in management of Diarrhoea

5) Uses and adverse effects of Atropine

6) Therapeutic uses of H1 Antihistamines

7) Classify Oral Hypoglycemic Drugs

8) Lignocaine – Mechanism of action and uses

9) Mummifying agents

10) ACE (Angiotensin Converting Enzyme) Inhibitors

11) Systemic antifungal agents

WRITE BRIEFLY ON:

10x2=20

12) Adverse effects of Glucocorticoids

13) Two contraindications of Propranolol

14) Vitamin-D

15) Verapamil is contraindicated in Cardiac failure. Why?

16) Treatment of Heparin over dosage.

17) Name two Proton Pump Inhibitors and two indications.

18) Mechanism of action and adverse effects of Isoniazid (INH)

19) Four examples of local hemostatics

20) Cetrimide

21) Iatrogenic diseases

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA :: AP
B.D.S. DEGREE EXAMINATION – JANUARY, 2016
SECOND BDS EXAMINATION
GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Discuss about first pass metabolism. Explain about enzyme induction and enzyme inhibition with example 3+3+3=9

2) Enumerate macrolide antibiotics. Describe the mechanism of action, adverse effects and its uses. 2+3+2+2=9

WRITE SHORT NOTES ON:

8x4=32

3) Newer drug delivery system

4) Antiemetics

5) Selective Cox-2 inhibitors

6) Metformin

7) Ketamine

8) Classification of antihypertensive drugs

9) First line antitubercular drugs and MOA (Mechanism of action) of any one

10) List of emergency drugs used in dentistry.

WRITE BRIEFLY ON:

10x2=20

11) Placebo

12) Rationale for use of timolol in glaucoma

13) Glucocorticoid should not be stopped abruptly following long term administration. Explain

14) Drugs used in Angina Pectoris

15) Anti-platelet drugs

16) Action and uses of Ondansetron

17) Techniques used in local Anaesthesia

18) Inhaler drugs in bronchial asthma

19) Bleaching agents

20) Mouth washes

GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS*(NR & OR)*

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify antihypertensive agents. Discuss the pharmacological actions, uses and adverse effects of calcium channel blockers. $3+2+2+2=9$

2) Explain the adverse effects of Tetracyclines. Add a note on Doxycycline. $6+3=9$

WRITE SHORT NOTES ON: $8 \times 4 = 32$

3) Uses of Adrenaline with rationale and route of administration

4) Transdermal drug delivery system

5) Complications of diuretics

6) Mummifying agents

7) BDZ (benzodiazepines) as anticonvulsants

8) Insulin analogues

9) PPIs (proton pump inhibitors)

10) 3rd generations cephalosporins

WRITE BRIEFLY ON: $10 \times 2 = 20$

11) Drug antagonism

12) Plasma half life

13) Selective vasopressor agents

14) Articaine

15) Amoxicillin

16) Alendronate

17) Topical antibiotics

18) Propofol

19) Cetirizine

20) Ipratropium

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

- 1) Classify non steroidal anti inflammatory drugs. Write mechanism of action, uses and adverse effect of aspirin. $4+2+2+1=9$
- 2) Classify Penicillin. Write mechanism of action, uses and adverse effect of Penicillin G. $4+2+2+1=9$

WRITE SHORT NOTES ON:

$8 \times 4 = 32$

- 3) Lignocaine
- 4) Phenytoin Sodium
- 5) Methotrexate
- 6) Drugs used in Halitosis
- 7) Atropine Substitutes
- 8) Pre anaesthetic medication
- 9) Dentifrice
- 10) Various methods to prolong drug action

WRITE BRIEFLY ON:

$10 \times 2 = 20$

- 11) Name four chelating agents
- 12) Name four bronchodilators
- 13) Use of fluorides in caries
- 14) Write the rationale for using Neostigmine in Myasthenia gravis
- 15) Mention four advantages of Newer insulin
- 16) Name two oral anticoagulants. Mention two adverse effects
- 17) What is Plasma half life?
- 18) Mention two therapeutic uses and two adverse effects of Furosemide.
- 19) Teratogenetic agents
- 20) Mention two ACE inhibitors and two calcium channel blockers

B.D.S. DEGREE EXAMINATION – JUNE, 2014
SECOND BDS EXAMINATION
GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

- 1) Classify antiepileptic drugs. Write on mechanism of action, uses and adverse effects of Phenytoin. 4+2+2+1=9
- 2) Enumerate Anti-Hypertensive drugs. Discuss the mechanism of action, uses and adverse effects of ACE inhibitors. 4+2+2+1=9

WRITE SHORT NOTES ON:

8x4=32

- 3) Low molecular weight Heparins
- 4) Treatment of organophosphorus poisoning
- 5) Adverse effects and contraindications of corticosteroids
- 6) Treatment of Lepra reaction
- 7) Co-trimoxazole
- 8) Thiopentone sodium
- 9) Combined effect of drugs
- 10) Obtundants

WRITE BRIEFLY ON:

10x2=20

- 11) Role of adrenaline in Anaphylactic shock
- 12) Name four topical anti-fungal drugs
- 13) Mention four uses of Prostaglandins
- 14) Define first order kinetics. Give one example.
- 15) Name two osmotic purgatives
- 16) Define astringents. Name two examples
- 17) Name 4 anti platelet drugs
- 18) Mention two uses and two adverse effects of rifampicin
- 19) Name four anti-emetic drugs
- 20) Name two β – lactamase inhibitors

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B.D.S. DEGREE EXAMINATION – JANUARY, 2014
SECOND BDS EXAMINATION
GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Define Bioavailability. Discuss the factors affecting bioavailability. 2+7=9

2) Enumerate fluoroquinolones antibiotic. Write antibacterial spectrum, adverse effects and therapeutic uses of Ciprofloxacin. 3+2+2+2=9

WRITE SHORT NOTES ON:

8x4=32

3) Drug antagonism

4) Dental desensitizing agents

5) Diazepam

6) Mechanism of action and adverse effects of Gentamicin

7) Mummifying agent

8) Name four β blockers. Write four uses

9) Ketamine

10) Calcium channel blockers

WRITE BRIEFLY ON:

10x2=20

11) Write two drugs used in hypertensive emergency

12) Name four insulin preparations

13) Mechanism of action and use of minoxidil

14) Name four drugs used in Glaucoma.

15) Write the rationale for combination of lignocaine and Adrenaline

16) Mention four adverse effects of cytotoxic anticancer drugs

17) Mention four uses of aspirin

18) Tetracyclines are not prescribed in young children. Give reason.

19) Name four drugs used in preanesthetic medication.

20) Name two synthetic glucocorticoids and their two therapeutic uses

B.D.S. DEGREE EXAMINATION – JUNE, 2013
SECOND BDS EXAMINATION
GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Enumerate various routes of administration of drugs. Write the advantages and disadvantages of intravenous (iv) route of administration. 9

2) Enumerate beta-lactam antibiotics. Write antibacterial spectrum, adverse effects and therapeutic uses of amoxicillin 9

WRITE SHORT NOTES ON:

8x4=32

- 3) Intravenous anaesthetics
- 4) Radioactive iodine
- 5) Anxiolytics
- 6) Naloxone
- 7) Antiemetics
- 8) Oxidizing agents
- 9) Mechanism of action and adverse effects of chloramphenicol
- 10) Name four alpha adrenergic blockers. Write the uses of alpha adrenergic blockers

WRITE BRIEFLY ON:

10x2=20

- 11) Mention two skeletal muscle relaxants and their two uses.
- 12) Name four antihistamines
- 13) Name two high ceiling diuretics and its two uses
- 14) Name four bronchodilators.
- 15) Mention the rationale of using pilocarpine in glaucoma.
- 16) Mention the rationale of using oximes in organophosphates poisoning
- 17) Name four antimetabolites used in cancer chemotherapy
- 18) Mention four antifungal drugs
- 19) Mention two drugs that cause gingival hyperplasia.
- 20) Write two drugs used in grand mal epilepsy

420/403-SECOND B.D.S. DEGREE EXAMINATION – DECEMBER, 2012

General & dental pharmacology & therapeutics-(nr & or)-Time : 3 Hours-Max. Marks : 70-Answer all questions-Draw neat labeled diagrams wherever necessary.

- 1..Classify local anesthetics with examples. Explain mechanism of action and therapeutic uses of Lignocaine. Add a note on complications of spinal anaesthesia=3+1+2+3=9m
- 2..Classify semisynthetic Penicillins. Describe the antibacterial spectrum, uses and adverse effects of Ampicillin=3+3+3=9m

Write short notes on: 8 x 4=32m

- 3..Drug antagonism
- 4..Carbamazepine
- 5..Atropine substitutes
- 6..Plasma expanders
- 7..Coagulants
- 8..Antiseptics and disinfectants
- 9..Treatment of Lepra reaction
- 10.Dental Abrasives

Write briefly on: 10 x 2=20m

- 11.Define prodrug. Give two examples
- 12.Write four advantages of oral route of drug administration
- 13.Why diazepam is preferred over Phenobarbitone as Sedative – Hypnotic.
- 14.Mention four non-steroidal anti-inflammatory drugs.
- 15.Mention four drugs used in Parkinsonism.
- 16.Glucocorticoids should not be stopped abruptly. Why?
- 17.Tetracyclines are contraindicated during pregnancy. Why?
- 18.Mention four proton pump inhibitors
- 19.Mention four antimalarial drugs.
- 20.Mention two topically used sulfonamides.

420/403-SECOND B.D.S. DEGREE EXAMINATION – JUNE, 2012

- 1..Classify antihypertensive drugs. Write mechanism of action, adverse effects and uses of ACE inhibitors=3+2+2+2=9m
- 2..Enumerate drugs used in Peptic ulcer. Write the Mechanism of action, adverse effects and uses of Omeprazole=3+2+2+2=9m

Write short notes on: 8 x 4=32m

- 3..Propranolol
- 4..Nitroglycerine
- 5..Newer routes of drug administration
- 6..Lignocaine
- 7..Newer Insulins
- 8..Adverse effects of glucocorticoids
- 9..Gentamicin
- 10.Metronidazole

Write briefly on: 10 x 2 =20m

- 11.Mention Two drugs for the treatment of vomiting.
- 12.Mention two drugs for productive cough
- 13.Mention two Styptics
- 14.Mention two Oral Iron Preparations
- 15.Mention two Oral Anticoagulants
- 16.Write two uses of Rifampicin
- 17 Drug of choice for acute paracetamol overdose and reasons for its selection.
- 18.Mention two Aminoglycoside Antibiotics
- 19.Mention two Antifungal Agents
- 20.Mention two advantages of Amoxicillin Over Ampicillin.

420/403-SECOND B.D.S. DEGREE EXAMINATION – DECEMBER,2011/JANUARY, 2012

- 1..Enumerate non-steroidal anti-inflammatory drugs (NSAIDS). Write the pharmacological actions, adverse effects and therapeutic uses of aspirin=2+3+2+2=9m
- 2..Enumerate cephalosporins. Write the mechanism of action, adverse effects and therapeutic uses of third generation cephalosporins=3+2+2+=9m

Write short notes on: 8 x 4=32m

- 3..Benzodiazepines.
- 4..Fibrinolytics
- 5..Thiazide diuretics
- 6..Biguanides.
- 7..Saline purgatives.
8. Mechanism of action and uses of erythromycin.
9. Mummifying agents.
- 10.Vitamin D

Write briefly on:10 x 2=20m

- 11.Mechanism of action of disulfiram
- 12.Name four drugs used in peptic ulcer.
- 13.List four adverse effects of digoxin.
- 14.Write two advantages and two disadvantages of oral route of drug administration.
- 15.Name two angiotensin converting enzyme inhibitors.
- 16.Mention two advantages and two disadvantages of Halothane.
- 17.Define drug antagonism. Give two examples.

18. Mention drugs used in status asthmaticus. 19. Write mechanism of action of Warfarin
20. Tetracyclines are contraindicated in pregnancy – give reasons

420/403-SECOND BDS. DEG. EXAM-JUNE, 2011-GEN. & DENT. PHARM.& THERAP-(NR &OR)

Time : 3 Hours-Max. Marks : 70-Answer all questions-Draw neat labeled diagrams wherever necessary.

- 1..Classify Anti cholinergic drugs. Mention the therapeutic uses and adverse effects of Atropine.
2..Classify anti epileptic drugs. Write therapeutic uses and adverse effects of Phenytoin Sodium=4+2+3

WRITE SHORT NOTES ON: 8 x 4 =32m

- 3..Pro drugs 4..Management of Diabetic Ketoacidosis 5..Explain action of Nitrates in Angina Pectoris
6..Captopril – Mechanism of action, uses and adverse effects. 7..H2 receptor antagonists
8. Mention therapeutic uses and adverse effects of glucocorticoids. 9. Semi synthetic Penicillins
10.Fluorides in Dentistry.

WRITE BRIEFLY ON: 10 x 2 =11. Define chemoprophylaxis. Give one example

12. Propranolol is contraindicated in bronchial asthma. Give reason
13. Mention four uses of Prostaglandins. 14. Mention two drugs used to suppress dry cough
15. Name first line drugs used in leprosy. 16. Ethambutol is not prescribed in children. Give reason
17. Name two anticancer antibiotics. 18. Morphine in head injury.
19. Hydrogen peroxide is used as antiseptic. Give reasons. 20. Mention four water soluble vitamins.

420/403-SECOND B.D.S. DEG. EXAMINATION – DEC., 2010/JANUARY, 2011-N.R. & O.R.

- 1..Enumerate opioid analgesics. Write the pharmacological actions, adverse effects and contraindications of morphine=9m

- 2..Enumerate fluoroquinolones. Write the mechanism of action and uses of ciprofloxacin=9m

WRITE SHORT NOTES ON: 8 x 4 =32m

- 3..Ketamine 4..Heparin 5..Tolerance 6..Topical glucocorticoids 7..Proton pump inhibitors
8..Mechanism of action and uses of tetracyclines 9..Obtundants
10.Name four beta blockers. Write the uses of beta blockers.

WRITE BRIEFLY ON: 10 X 2=11. Mechanism of action of Pancuronium 12. Name four Fibrinolytics

13. Mechanism of action and use of Minoxidil 14. List four adverse effects of chlorpromazine
15. Write two advantages and two disadvantages of intravenous (iv) route of drug administration
16. List four uses of atropine 17. Mention four drugs used in Halitosis.
18. Give reasons for the combination of gentamicin and penicillin in enterococcal endocarditis
19. Name four chelating agents 20. List four uses of neostigmine

403-SECOND B.D.S. DEG. EXAM. –JANUARY, 2010-GEN. & DENT. PHARMACOLOGY-O.R.

PART-A (35 MARKS)

- 1..Classify Local anaesthetics giving suitable examples. Explain the mechanism of action and therapeutic uses of Lognocaïne. Add a note on complications of spinal anaesthesia=2+5+2=9m

WRITE SHORT NOTES ON: 4 X 4 =16m

- 2..Organophosphorus poisoning 3..Sodium valproate. Mechanism of action and therapeutic uses
4..Mechanism of action and therapeutic uses of digitalis 5..Prokinetic drugs.

WRITE BRIEFLY ON: 5 x 2=6..Mechanism of action and two uses of Ciprofloxacin

- 7..Aspirin is contraindicated in patients with bleeding diathesis. Give reason.
8..Name two non-nucleoside reverse transcriptase inhibitors.
9..Chloroquine is not effective in radical cure in plasmodium vivax malaria. Give reason.
10.List three intravenous anaesthetic agents

PART-B(35 MARKS)

- 11.Classify oral hypoglycaemic agents with examples. Describe the mechanism of action and adverse effects of sulfonylurea =9m

WRITE SHORT NOTES ON: 4 x 4 =16m

12.High ceiling diuretics 13.Oral anticoagulants 14.Rifampicin 15.Beta lactamase inhibitors

WRITE BRIEFLY ON: 5 x 2=16.Neostigmine is preferred to physostigmine in myasthenia gravis

17.Name four nasal decongestants. 18.Name two non sedating H blockers. 19.Mummifying agents

20.Name two chelating agents. Mention one indication for each.

420-SECOND B.D.S. DEG. EXAM – JUNE, 2009-GEN. & DENTAL PHARM. & THERAP. (N.R.)

1..Enumerate skeletal muscle relaxants. Write the mechanism of action, therapeutic uses and adverse effects of any one of them=9m

2..Enumerate glucocorticoids. Write their therapeutic uses and adverse effects=9m

WRITE SHORT NOTES ON: 8 x 4 =32m

3..Amoxicillin 4..Uses of adrenaline in dentistry 5..Obtundents 6..Uses of diazepam

7..Rifampicin 8..Common adverse effects of anticancer drugs 9..Drug tolerance

10.Routes of administration of lignocaine

WRITE BRIEFLY ON: 10 x 2 =20

11.Name four drugs used in anaerobic infections 12.List four uses of antihistamines

13.Topical antibiotics 14.List the uses of warfarin 15.Adverse effects of tetracyclines

16.Dentistry and use of antiepileptic drugs 17.Name four oral antidiabetic drugs

18Name four antihypertensives used in hypertensive emergencies

19.Name four antiplatelet drugs 20.Name four antiemetics

403-SECOND B.D.S. DEG. EXAMINATION – FEBRUARY, 2009-GEN. AND DENT.PHARM.

PART-A

1..Classify analgesics. Describe the mechanism of action, Pharmacological actions and adverse effects of Aspirin=3+1+3+2=9

Write short notes=4x4=2..Loop Diuretics. 3..Drug Tolerance 4..Nifedipine 5..Plasma expanders

WRITE BRIEFLY ON: 5 x 2 =10m =6..Mention two drugs administered by subcutaneous route.

7..Mention two broad spectrum antiepileptic agents. 8..Mention two newer non sedative antihistaminics

9. Mention four uses of Adrenaline. 10.Mention four intravenous general anaesthetic agents.

PART-B

11.Classify insulin preparations. Write the mechanism of action and pharmacological actions and adverse effects of insulin.=3+2+2+2=9m

WRITE SHORT NOTES ON=4x4=16m

12.Rifampicin 13.Domperidone. 14.Drugs used in Halitosis (Bad Breath) 15.Treatment of Lepra reaction.

WRITE BRIEFLY ON:=5x2=10m

16.Tetracyclines should not be given to pregnant women and to infants, give reasons.

17.Mention four H-2 blockers. 18.Mention four important adverse effects of glucocorticoids.

19.Mention two advantages of amoxycillin over ampicillin.

20.Mention four bactericidal drugs used in the treatment of tuberculosis.

403-SECOND B.D.S. DEG. EXAMINATION – JULY, 2008-GEN.& DENT. PHARMACOLOGY

PART-A

1..Classify antihypertensive drugs. Describe the mechanism of action, adverse effects and pharmacological actions of ACE(Angiotensin converting Enzyme) inhibitors. (3+1+2+3=9)

Write short notes on:= (4x4=16)

2..Uses of beta blockers 3..Oral anticoagulants 4..Drug Antagonism 5..Plasma half life

Write briefly on:= (5x2)=6.Mention four inhalational General anaesthetics

7. Dental Abrasives – mention four drugs 8. Mechanism of action of digitalis 9. Mention four plasma expanders 10. Rationale of using low dose aspirin prophylactically

PART - B

11. Enumerate the various broad spectrum antibiotics. Discuss the mechanism of action, antibacterial spectrum and adverse effects of tetracyclines= (2+2+2+3=9)m

Write short notes on:=(4x4=16)=12. Proton pump inhibitors 13. Newer insulins

14. Common characteristics of aminoglycoside antibiotics 15. Dimercaprol

Write briefly on:=(5x2=10)m

16. Iron tablets should be given along with dapsone, why?

17. Mention four drugs used in the treatment of vomiting.

18. Mention two important contraindications and uses of glucocorticoids.

19. Mention two topically used sulfonamides.

20. Mention two alkylating agents used in cancer chemotherapy.

403-SECOND B.D.S. DEG. EXAM. – MARCH, 2008-GENERAL & DENTAL PHARMACOLOGY

PART-A

1. Define broad spectrum antibiotic. Write the indications and adverse effects of Doxycycline=(2+3+4=9)

Write Short Notes On: =4x4=16

2. Dental desensitizing agents. 3. Antacids 4. Drug synergism 5. Plasma expanders

Write Briefly On:= 5x2=6. Two indications and two contraindications of Mannitol

7. What is a prodrug? Give two examples. 8. Rationale of low dose of Aspirin in myocardial infarction 9. Life saving uses of Hydrocortisone 10. Why quinolones are not recommended for use in children?

PART-B

1. Classify Antihypertensive drugs. Explain the mechanism of action and two clinical uses of Enalapril.

Write two advantages of Losartan over Enalapril in hypertension=(4+1+2+2=9)

Write short notes on: =(4x4)=2. Uses of Atropine 3. Phenytoin sodium 4. Dimercaprol 5. Labetalol

Write Briefly On:=(2x5=10)=6. The basis for using Calcitriol in renal rickets.

7. Why Sulphonylureas are not useful in juvenile diabetes mellitus?

8. Basis for combining Lignocaine and Adrenaline

9. Four differences between Diazepam and Phenobarbitone.

10. Drug of choice for acute Paracetamol overdose and reason for its selection.

403-NR-B.D.S. DEGREE EXAMINATION – OCTOBER, 2007-SECOND BDS EXAMINATION-

Part-A

1. Enumerate various Local Anaesthetics. Write the mechanism of action of Lignocaine. Add a note on complications of spinal anaesthesia=4+2+3.

Write short notes on: 4 x 4 =16m; 2. Advantages and disadvantages of sublingual route 3. Uses of Atropine

4. Heparin 5. Mummifying Agents

Write briefly on: 5 x 2 =10m; 6. Define prodrug. Give two examples 7. Mention four calcium channel blockers

8. Mention four drugs used in Halitosis

9. Write four advantages of newer antihistaminics-over conventional antihistaminics.

10. Rationale of using neostigmine in the treatment of myasthenia gravis

Part-B

11. Classify oral hypoglycemic agents. Describe the mechanism of action adverse effects and preparation of sulfonylureas=3+2+2+2

Write short notes on: 4 x 4 =16m; 12. Antiemetics 13. Dapsone 14. Loop Diuretics 15. E.D.T.A.

Write brief notes on: 5 x 2 =10m; 16. Rationale of using pyridoxine alongwith isoniazid

17. Rationale of combining Amoxycillin with cloxacillin

18. Domperidone is preferred to metoclopramide, give reason

19. Glucocorticoids should be gradually withdrawn after long term use, Give reasons

20. Mention two vinca alkaloids used in cancer treatment

APRIL, 2007

PART - A

1. Classify Local anaesthetics giving suitable examples. Explain the mechanism of action and therapeutic uses of Lignocaine. Add a note on complications of spinal anaesthesia (3+3+3)
2. Write short notes: 4x4=16=a) Drug tolerance b) Dentifrices c) Coagulants d) Uses of Diazepam
3. Write briefly on: 5x2=10
 - a) The pharmacological basis and route of administration of Furosemide in acute pulmonary oedema
 - b) Merits of sublingual route of administration
 - c) Rationale of using Omeprazole and Clarithromycin in peptic ulcer d) Two uses of Methotrexate
 - e) Two drug interaction between tetracycline and antacid.

PART - B

4. Classify Insulin preparations giving suitable examples. Write the mechanism of action and adverse effects of insulin. Explain the advantages of human insulin over the other conventional Insulin preparations.=(3+2+2+2)
5. Write short notes on: 4x4=16 =a) Uses and adverse effects of Digoxin
 - b) Treatment of organophosphorous poisoning c) Desferrioxamine d) Salbutamol
5. Write briefly on: 5x2=10=a) Mechanism of action and use of Minoxidil
 - b) Four differences between Diphenhydramine and Loratidine
 - c) Mechanism of action and two uses of Ciprofloxacin d) Two contraindications of Morphine with reasons
 - e) Two drugs useful in schizophrenia with mechanism of action of any one of them.

SEPTEMBER-2006

Part-A

1. Classify Non-steroidal inflammatory drugs. Explain the mechanism of action and uses of Ibuprofen=3+2+4=9
2. Write short answers on: 4 x 4; a) Anticancer drugs b) Prokinetic agents c) Drug antagonism e) Heparin
3. Write briefly on: 5 x 2 =10m; a) Rationale of combining Spironolactone with Furosemide
 - b) First pass metabolism with suitable examples c) Methods to ameliorate toxicity of anticancer drugs
 - d) Rationale for combining Amoxicillin and Clavulanic acid. Write one indication for this combination
 - e) One use and mechanism of action of Isonicotinic acid Hydrazide (INH)

Part-B

4. Classify cholinergic drugs with examples. Write the mechanism of action, uses and adverse effects of Neostigmine=9m;
5. Write short answers: 4 x 4=a) Uses of Adrenaline b) Glibenclamide c) D-Penicillamine d) Nitroglycerine
6. Write briefly on: 5 x 2 =10m; a) Two differences between Hydrocortisone and dexamethasone
 - b) Four uses of metronidazole c) One use and mechanism of action of protamine sulphate
 - d) One indication for combining Nitrous Oxide and Halothane. Explain its rationale.
 - e) Two advantages of Diazepam over Phenobarbitone as hypnotic

FEBRUARY-2006

Part-A

1. Classify the drugs used in Hypertension. Write the pharmacological actions and adverse effects of ACE (Angiotensin Converting Enzyme) inhibitors = 3+3+3=9marks
2. Write : 4 x 4 =a) Drug Antagonism b) Lignocaine c) Nasal Decongestants d) Diphenyl hydantoin sodium
3. Write briefly on: 5 x 2 =10marks; a) What is Dopamine? Mention one use and route of administration.
 - b) Mention two uses and two adverse effects of chlorpromazine c) Mention two drugs used to suppress Dry Cough d) Rationale of using atropine in pre-anaesthetic medication
 - e) Rationale of using Imipramine in Mental depression

Part-B

4. Enumerate Tetracyclines. Write their therapeutic uses and adverse effects. 3+3+3=9marks
5. Write short answers on: 4 x 4 =16marks; a) Extended spectrum penicillins b) Mouth washes

- c) Therapeutic uses of prednisolone d) Omeprazole
6. Write briefly on: 5 x 2 =10marks; a) Name four drugs used in fungal infections
 b) Name four oral hypoglycemic drugs c) Rationale of using D-penicillamine in copper poisoning
 d) Rationale of combining Aluminium hydroxide gel and Magnesium trisilicate as Antacids.
 e) Rationale of using Loperamide in Diarrhoea.

(N.R.) - OCT-NOV-2005

Part-A

1. Classify local Anaesthetics. Write their mechanism of action. Mention types of local Anaesthesia (3+4+2)
 2. Write short answers on: 4 x 4 =16marks; a) Nifedipine b) Fibrinolytics
 c) Advantages and disadvantages of intravenous route of administration d) Therapeutic uses of atropine
 3. Write briefly on: 5 x 2 =10marks; a) Rationale of using Beta blockers in Hypertension
 b) What is a plasma Expander? Give two examples c) Rationale of using Neostigmine in Myasthenia Gravis
 d) Morphine is contraindicated in Head injury e) Name four Diuretics.

Part-B

4. Enumerate fluoroquinolones. Write their therapeutic uses and adverse effects =3+3+3
 5. Write short answers on: 4 x 4 =16marks; a) Co-Trimoxazole b) Ranitidine c) Newer Insulins d) Obtundents
 6. Write briefly on: 5 x 2 =10marks; a) Rationale of combining INH (Isonicotinic and Hydrazide) with pyridoxine
 in treatment of tuberculosis b) Omeprazole is used in peptic ulcer
 c) Name four Antimetabolites used in cancer therapy d) Name four Antiseptics used in dental
 practice
 e) Mention two therapeutic uses and two adverse effects of Gentamicin

MAR/APR,2005.

Part-A

1. Classify B-blockers. Describe the pharmacological actions, therapeutic uses and adverse effects of propranolol(3+2+2+2)
 2. Write short answers:=a) Iron preparations b) Mummifying agents c) Drug antagonism d) Thiazide diuretics
 3. Write briefly on: 5 x 2 =10marks; a) Adrenaline is combined with Lignocaine
 b) Mention four newer antihistamines with four advantages c) Dopamine is preferred in cardiogenic shock
 d) Phenytoin is contraindicated during pregnancy e) Mention four drugs causing tachyphylaxis

Part-B

4. Classify Penicillins. Describe the mechanism of action, antibacterial spectrum and therapeutic uses of Ampicillin=(3+2+2+2=9marks)
 5. Write short : 4 x 4 =a) Newer Insulins b) Loperamide c) Treatment of lepra reaction d) Vinca alkaloids
 6. Write briefly on: 5 x 2 =10marks; a) Pyridoxine should be administered with INH
 b) Rationale for combining sulfamethoxazole and trimethoprim c) Mention four adverse effects of Rifampicin
 d) Mention four non-hormonal uses of glucocorticoids
 e) Domperidone is preferred over Metoclopramide in vomiting

OCTOBER, 2004.

Part-A

1. Classify Benzodiazepines. Explain their mechanism of action and therapeutic uses. Mention their advantages over barbiturates as sedative hypnotics. (3+2+2+2=9marks)
 2. Write short answers on: 4 x 4 =16marks; a) Intravenous anaesthetics b) Plasma expanders
 c) Drugs used in Halitosis (Bad Breath) d) Tachyphylaxis
 3. Write briefly on: 5 x 2 =10marks; a) Define bioavailability. Mention two factors which affect bioavailability.
 b) Mention four adverse effects of atropine c) Mention four ACE inhibitors
 d) Rationale of combining Thiazides with spironolactone
 e) Low dose aspirin is administered prophylactically in myocardial infarction.

Part-B

4. Classify Glucocorticoids. Describe their mechanism of action, adverse effects and therapeutic uses (3+2+2+2)
5. Write short notes on: 4 x 4=16marks; a) Rifampicin b) Broad spectrum penicillins c) Dimercaprol d) Prokinetic agents.
6. Write briefly on: 5 x 2 =10marks; a) Ciprofloxacin should not be used in children
b) Tetracyclines are contraindicated during pregnancy and infancy
c) Sulfonamides are not very effective in the presence of pus.
d) Newer Insulins are preferred to conventional insulins. Give two reasons.
e) Mention four topically used antibiotics.

APRIL/MAY, 2004.

Part-A

1. Classify sympathomimetics. Write the therapeutic uses and adverse effects of Adrenaline (3+3+3=9marks)
2. Write short answers on: 4 x 4 =16marks; a) Advantages and Disadvantages of oral route b) Ketamine
c) Oral Anticoagulants d) Therapeutic uses of Digoxin
3. Write briefly on; 5 x 2 =10marks; a) Mention four therapeutic uses of H1 blockers.
b) Rationale of using Aspirin in post myocardial infarction
c) Rationale of using Atropine in organophosphorous compound poisoning
d) Ethyl Alcohol is used in Methyl Alcohol poisoning. Write the rationale.
e) Rationale of using clonidine in hypertension.

Part-B

4. Enumerate the drugs used in leprosy. Write the mechanism of action and adverse effects of Dapsone.(3+3+3)
5. Write short answers on: 4 x 4 =16marks; a) Adverse effects of Rifampicin b) Liquid paraffin
c) Mechanism of action of Glypizide d) Dentifrices
6. Write briefly on: 5 x 2 =10marks; a) Tetracyclines are contraindicated during pregnancy. Give reasons.
b) Rationale of using Desferrioxamine in iron poisoning c) Rationale of using Domperidone in vomiting
d) Mention four uses of Dexamethasone. e) Name four antibiotics used in cancer therapy

OCTOBER, 2003. (N.R.)

Part-A

1. Classify local anaesthetics. Mention their mechanism of action and various methods of producing local anaesthesia. 3+2+4=9m)
2. Write short answers=a)Loop diuretics b) Dental Abrasives c)Pharmacogenetics d) Nonsedative antihistaminics
3. Write briefly on: 5 x 2 =10marks; a) Mention the antidote for Paracetamol poisoning. How does it act.
b) Rationale of using Dobutamine in Cardiogenic Shock.
c) Vit.K is used in over dosage of Warfarin.Give reason. d) Define prodrug. Give your examples.
e) Physostigmine is used in atropine poisoning. Give reason.

Part-B

4. Classify the drugs used in Diabetes Mellitus. Write the mechanism of action, adverse effects and uses of Sulfonylureas. (4=2=2+1=9marks)
5. Write short answers on: 4 x 4 =16marks; a) Semisynthetic penicillins b) Antimetabolites
c) H2 blockers d) Uses and adverse effects of glucocorticoids.
6. Write briefly on: 5 x 2 =10marks; a) Tetracyclines should not be given with antacids.
b) Rationale of using probenecid with Pencillin c) Mention two prokinetic drugs and their two adverse effects.
d) Mention two important uses of Rifampicin and its two adverse effects
e) Mention four drugs used in lepra reaction.

APRIL, 2003.

Part-A

1. Define Sedative hypnotics. Classify them. What are the advantages of Benzodiazepines over Barbiturates as Sedative-Hypnotics (2+3+4=9marks)
2. Write short answers on: 4 x 4 =16marks
 - a) Mechanism of action of local anaesthetic
 - b) Cardioselective beta blockers
 - c) Fibrinolytic agents
 - d) Drug antagonism
3. Write brief answers on: 5 x 2 =10marks
 - a) Two advantages and two disadvantages of ether as general anaesthetic
 - b) Mention four nasal decongestants
 - c) Name two loop diuretics. Mention two uses of them.
 - d) Mention two atropine substitutes used as mydriatic
 - e) Mention four drugs used in mental depression

Part-B

4. Enumerate tetracycline preparations. Write their therapeutic uses and adverse effects. (9marks)
5. Write short answers on: 4 x 4 =a) Therapeutic uses of glucocorticoids b) Osmotic purgatives
 - c) Mummifying agents
 - d) Nonsedatives H1 blockers
6. Write brief answers on: 5 x 2 =a) Four adverse effects of insulin b) Four therapeutic uses of Erythromycin
 - c) Rationale of using Domperidone as antiemetic
 - d) What is Omeprazole? Mention its two uses
 - e) What is superinfection? Give two examples.

OCTOBER, 2002

Part-A

1. Classify sympathomimetics. Write the cardio Vascular actions of Adrenaline. Mention uses of adrenalin=9m
2. Write short answers on: 4 x 4 =16marks.
 - a) Sodium Valproate
 - b) Nimesulide
 - c) Mechanism of action of Heparin
 - d) Nifedipine
3. Write brief on: 5 x 2 =10marks
 - a) Two advantages and two disadvantages of Halothane
 - b) Mention two Reversible Anticholinesterases.
 - c) What is Plasma Half life
 - d) Mention two uses and two adverse effects of Chlorpromazine
 - e) Mention two uses and two adverse effects of Thiazides.

Part-B

4. Enumerate the drugs used in the treatment of Tuberculosis. Write the mechanism of action and adverse effects of any one of them (3 +3+3=9marks)
5. Write short answers on: 4 x 4 =16marks
 - a) Preparations of Insulin
 - b) Dentifrices
 - c) Drugs used in Non infective Diarrhoea.
 - D) Vitamin-d
6. Write briefly on; 5 x 2 =10marks
 - a) Enumerate four wider spectrum penicillins.
 - b) Give two reasons for preferring Ranitidine over Cimetidine
 - c) What is D-penicillamine? Mention its two uses
 - d) Give reasons for not prescribing Tetracyclines to a child of 5 years

SECOND B.D.S. 11th February, 2002. (New Regulations) -Time: 3hours -Marks: 70 - Answer all questions

Part-A

1. Classify non-steroidal anti-inflammatory drugs. Write the therapeutic uses and adverse effects of Aspirin (Acetyl Salicylic acid) (3+3+3=9marks)
2. Write short notes on: 4 x 4 =16marks
 - a) Diphenyl Hydantoin Sodium
 - b) Styptic Agents
 - c) Advantages and disadvantages of inhalation route
 - d) Enalapril
3. Write briefly on: 5 x 2 =10marks
 - a) Rationale of using Digoxin in Atrial Fibrillation
 - b) Mention two oral and Parenteral preparations of iron
 - c) Rationale of using Salbutamol in Bronchial Asthma
 - d) Mention four drugs used in Hypotension
 - e) Neostigmine is used in treatment of Diaphragmatic Paralysis caused by D-Tubocurarine

Part-B

- Enumerate Aminoglycoside antibiotics. Write the antimicrobial spectrum, therapeutic uses and adverse effects of any one of them (3 +2+2+2=9marks)
- Write short notes on: 4 x 4 =a) Adverse effects of Prednisolone b) Lepra Reaction c) Loperamide d) Therapeutic uses of H1 blockers
- briefly: 5 x 2 =a) Four adverse effects of Rifampicin b) Rationale of using Metoclopramide in vomiting c) Vitamin C is given with iron in treatment of Anaemia d) Antiseptics used in Dental Practice e) Name four Chelating agents

SECOND B.D.S. 6th AUGUST, 2001.

Part-A

- Classify the drugs used in Epilepsy. Write the mechanism of action and adverse effects of Diphenyl hydantoin sodium-10m
- Short Notes: a) Fibrinolytic drugs b) Cardio selective Beta blockers c) Drug Antagonism d) Chlorpromazine e) Heavy metal Antagonists f) Verapamil 6x5=30marks

Part-B

- Enumerate Fluroquinolones. Mention their antimicrobial spectrum, therapeutic uses and adverse effects =10
- Short notes: a) Diamino Diphenyl sulfone b) Adverse effects of Insulin c) Ranitidine d) Methotrexate e) Obtundents f) Non sedative Antihistamines =6x5=30marks

FEBRUARY 2001.

Part-A

- Classify non-steroidal Anti-inflammatory drugs. Describe the pharmacological actions and therapeutic uses of salicylates-10marks
- Short notes: a) Lignocaine b) Therapeutic uses of Adrenaline c) Enalapril d) Preparations of Iron e) Vitamin-C f) Drug synergism =6x5=30marks

Part-B

- Enumerate Tetracycline's. Write their antimicrobial spectrum and therapeutic uses =10marks
- Short Notes: a) Griseofulvin b) Adverse effects of Adreno-corticosteroids c) Rifampicin d) Denitrifies e) Omeprazole f) Aminophylline =6x5=30m

9th OCTOBER, 2000.

Part-A

- Classify local anaesthetics. Write their mechanism of action. What are the types of local anaesthesia=10m
- Write short notes on: 6x5=a) Prazosin b) Imipramine c) Nimesulide d) Styptic agents e) Drug Tolerance f) Adverse effects of digoxin

Part-B

- Classify Penicillins. Write the therapeutic uses of Benzyl Penicillin. Add a note on the treatment of acute allergic reaction due to intramuscular injection of procaine penicillin =10marks
- Write short notes on: 6x5=a) Broad spectrum Antifungal drugs b) Preparation of insulin

c) Mouth washes d) Hydrochlorothiazide e) Domperidone f) Vasopressors

APRIL, 2000.

Part-A

- Classify skeletal muscle relaxants. Describe the pharmacological actions, therapeutic uses and adverse effects of D-Tubocurarine =10marks
- Write short notes on: 6x5=a) Amoxycillin b) Glybenclamide c) Sodium Valproate d) Vitamin D e) Heparin f) Clonidine

Part-B

- Enumerate Aminoglycoside antibiotics. Write the anti-microbial spectrum, side effects and therapeutic uses of Gentamycin =10marks

4. Write short notes on: 6x5=a) Co-trimoxazole b) Propranolol c) Frusemide d) Disclosing agents
e) Metoclopramide f) Salbutamol

APRIL, 1999.

Part-A

1. Classify non-steroidal anti-inflammatory drugs. Describe the pharmacological actions and therapeutic uses of salicylates =10marks
2. Write short notes on: 6x5=a) Ciprofloxacin b) Adverse effects of Glucocorticoids c) H1 blockers
d) Ketamine e) Drug Synergism f) HEPARIN

Part-B

3. Enumerate Beta Adrenergic blocking drugs. Write the pharmacological actions and adverse effects of propranolol=10m
4. Write short notes on: 6x5=a) Styptics b) Saline Purgatives c) Therapeutic use and adverse effects of digoxin
d) I.N.H.(Isonicotinic acid Hydrazide) e) Lignocaine f) Doxycycline

OCTOBER, 1998.

Part-A

1. Classify non-steroidal anti-inflammatory drugs. Describe the pharmacological actions, uses and adverse effects of the propionic acid derivatives. =10marks
2. Write short notes on: 6x5=30ma= a) Halothane b) Glibenclamide c) Salbutamol
d) Bioavailability e) Pentazocine f) Aluminium Hydroxide

Part-B

3. Classify drugs used in the treatment of infections caused by gram positive organisms. Discuss the mechanism of action, uses and adverse effects of Benzyl penicillin =10marks
4. Write short notes on: 6 x 5 =a) Antibiotics in cancer chemotherapy b) Ciprofloxacin c) Vitamin-D
d) Iso Nicotinic acid Hydrazide e) Co-trimoxazole f) Supra Infection

APRIL, 1998.

Part-A

1. Classify hypno-sedatives. Discuss the pharmacological actions, uses and adverse effects of Benzodiazepines-10
2. Write short notes on: 6x5=30m. a) Warfarin sodium b) Prednisolone c) Lidocaine
d) Vitamin K e) Biotransformation f) Aluminium Hydroxide

Part-B

3. Classify drugs used in the treatment of Hypertension. Discuss the pharmacological actions, uses and adverse effects of the angiotensin converting enzyme inhibitors =10marks
4. Write short notes on: 6x5=30m = a) Acyclovir b) Gentamycin c) Ketoconazole d) Folic Acid
e) Betal actamase Inhibitors f) Tetracycline

OCTOBER, 1997.

Part-A

1. Classify Anti-coagulants. Discuss the mechanism of action, uses & adverse effects of the coumarin derivatives
2. Write short: 5x5=a) Prathormone b) Diazepam c) Neostigmine d) Furosemide e) Phenytoin sodium

Part-B

3. Classify drugs used in the treatment of infections caused by gram negative organisms. Discuss the mechanism of action, uses and adverse effects of the Fluoro quinolone =10marks
4. Write short notes on: 6x5=30m. a) Chloroquine b) Paracetamol c) Dapsone
d) Cyclophosphamide e) Metronidazole f) D-Tubocurarine

APRIL 1997.

Part-A

1. Mention the various insulin preparations with their advantages and disadvantages =10marks
2. Short notes: a) Cotrimoxazole b) Heparin c) Adrenaline d) B-12 (Cynocobalamin) e) Aluminum Hydroxide

Part-B

3. Classify drugs used in Tuberculosis. Write the Pharmacology of any two commonly used drugs =10marks
4. Short : a)Frusemide b)Xylocaine c)Hydro cortisone d)Methotrexate e)Atropine f) Acetyl Salicylic Acid

11th OCTOBER, 1996

Part-A

1. Classify local anesthetics. Describe the pharmacological actions, uses and side effects of Xylocaine =10m
2. Short Notes: a) Procaine Penicillin b) Insulin c) Rifa Mycin d) Rantidene e) Chlorpromazine =5x5

Part-B

1. What are Broadpectrum antibiotics? Discuss the action, side effects, uses of Tetracycline =10marks
2. Short : a) Vincristene b) Nitrous oxide c)Metho trexate d)Ibuprofen e)Dicoumaral f)Oral Antiseptics-6x5

APRIL 1996.

Part-A

1. Classify Anti hypertensive drugs. Describe the pharmacological actions of any TWO commonly used drugs =10
2. Short notes:a)Dapsone b) Ferrous sulfate c)Warfarin sodium d)Drug Antagonism e) Noradrenaline =5x5

Part-B

3. Enumerate Antipyretic analgesics. Describe the pharmacological actions,uses, side effects of Acetyl Salicylic Acid=10m
4. Short Notes: a) Magnesium Sulfate b) Methoclopramide c) Tolbutamide d) Gentamycin
e) Phenobarbitone f) Ether =6x5=30marks

OCTOBER 1995.

Part-A

1. Classify Sympathomimetic drugs. Mention the pharmacological actions, therapeutic uses and contraindications of Adrenaline=10marks
2. Short:a) Tachyphylaxis b) Physostigmine c) Phenytoin sodium d) Ibuprofen e) Thiopentone sodium=5x5

Part-B

3. Classify the drugs used in treatment of Malignancy. Discuss the mechanism of action, therapeutic uses and side effects of Methotrexate =10marks
4. Short Notes: a) Glyceryltrinitrite b) Antacids c) Potassium permanganate d) Dexamethasone
e) Rifampicin f) Spironolactone =6x5=30marks



DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – DECEMBER 2022

FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary

1 What are Dental Alloys? Write in detail the classification, composition and uses of dental casting alloys. **3+2+2+2=9**

2 Define dental composites. Classify; mention its composition properties indication and contraindications of the same. **1+2+1+1+1+1+2=9**

WRITE SHORT NOTES ON**8x4=32**

- 3 Dental stone
- 4 Stress and strain
- 5 Polymerization cycles
- 6 Investment materials
- 7 Corrosion and its prevention
- 8 Dentin Bonding Agents
- 9 Impression compound
- 10 Metal free ceramics

WRITE BRIEFLY ON**10x2=20**

- 11 Rheology
- 12 Age Hardening
- 13 Sensitization and stabilization
- 14 Copy Milling
- 15 Super Elasticity
- 16 Applications of Poly Carboxylate Cement
- 17 Creep
- 18 Fit and fissure sealant
- 19 Non Eugenol cement
- 20 Eame's technique

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE, 2022

FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary

1 Classify impression materials, describe the composition, setting reaction and properties of alginate impression material **3+2+2+2=9**

2 Classify dental cements, Describe the composition , setting reaction, types and uses of glass ionomer cement. **1+2+1+1+1+1+2=9**

WRITE SHORT NOTES ON**8x4=32**

3 Significance of Accelerators and Retarders in gypsum products

4 Methods of strengthening of dental porcelain

5 Casting defects

6 Gold Foil

7 Finishing and polishing of amalgam restorations

8 Cavity varnish and liners

9 Microfilled composites

10 Self etch dental adhesives

WRITE BRIEFLY ON**10x2=20**

11 Tray adhesives

12 Bite registration wax

13 Spherulites

14 Noble metal alloys

15 Gutta percha

16 Micro hardness test

17 Sprue

18 Microleakage in dental restorations

19 Coefficient of thermal expansion

20 Rake angle

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – NOVEMBER, 2021
 FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary

1. Classify dentin bonding agents, write in detail about mechanism of action by various generations of dentin bonding agents. **3+2+2+2=9**

2. Classify dental waxes , Discuss in detail of inlay casting wax **1+2+1+1+1+1+2=9**

WRITE SHORT NOTES ON:**8x4=32**

3. Recent advances in ceramics
4. Stainless steel wire
5. Agar as duplicating material
6. Curing cycles of acrylic resin
7. Corrosion
8. Die materials
9. Admixed alloy
10. Nano composites

WRITE BRIEFLY ON:**10x2=20**

11. Surface tension
12. Annealing
13. Shape memory
14. Suck back porosity
15. Sandwich technique
16. Miracle mix
17. Flux
18. Cavity bases
19. Dental implant materials
20. Separating media

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – APRIL, 2021

FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary

1. Discussion detail the composition, properties, setting reaction advantages and disadvantages of Glass ionomer cements **3+2+2+2=9**
2. Classify composition resins and describe in detail the composition properties and uses of hybrid composites. **1+2+1+1+1+1+2=9**

WRITE SHORT NOTES ON:**8x4=32**

3. Heat treatment of gold alloys
4. Porosities in acrylic resins
5. Phosphate bonded investment
6. Calcium hydroxides
7. Hardness tests
8. Reversible hydro colloid impression materials
9. Color
10. Mercury toxicity

WRITE BRIEFLY ON:**10x2=20**

11. Poisson's ratio
12. Enamel bonding agents
13. Bite registration wax
14. Burn out
15. Calcination
16. Name four luting cements
17. Welding
18. Rake angle
19. Zinc free alloys
20. Nickel titanium alloys

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – NOVEMBER, 2020
 FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1. Classify Dental impression, materials, Describe in detail the properties, Manipulation and uses of addition silicone impression material **3+2+2+2=9**
 2. Define Dental Amalgam. Write in detail about the composition, uses, advantages, disadvantages, manipulation and properties of high copper Amalgam **1+2+1+1+1+1+2=9**
- WRITE SHORT NOTES ON:** **8x4=32**
3. Impression compound
 4. Titanium Alloys
 5. Implant materials
 6. Composition and setting reaction of Alginate
 7. Direct filling Gold
 8. Acid Etch Technique
 9. Coupling agents
 10. Casting Shrinkage
- WRITE BRIEFLY ON:** **10x2=20**
11. Boxing wax
 12. Die spacers
 13. Tray compound
 14. Gold foil
 15. Classification of inlay wax
 16. Curing of composite resin
 17. Galvanism
 18. Polishing agents
 19. Uses of ZOE cement
 20. Dentifrices

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JANUARY, 2020

FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION(NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify Impression gypsum products. Describe the methods of evaluation and factors affecting setting times of gypsum products 3+2+2+2=9

2) Define the term composite. Discuss the resin matrix, fillers and coupling agents of dental composite resins. 1+3+3+2=9

WRITE SHORT NOTES ON:8x4=32

- 3) Die materials
- 4) Zinc Phosphate Cement
- 5) Metal – ceramic bonding
- 6) Micro hardness testing methods
- 7) Polyvinyl siloxane impression materials
- 8) Resilient liners
- 9) Sprue former
- 10) Trituration of dental amalgam

WRITE BRIEFLY ON:10x2=20

- 11) CAD –CAM ceramics
- 12) Rouge
- 13) Disinfection of impression materials
- 14) metamerism
- 15) Pickling
- 16) plasticizers
- 17) Delayed Expansion
- 18) Super elasticity of Nitinol
- 19) Rake angle
- 20) Types of flux

DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify Impression Materials. Discuss composition, manipulation and properties of Agar Impression Material. 3+2+2+2=9

2) Discuss the casting defects that can arise and describe in detail how to avoid them. 5+4=9

WRITE SHORT NOTES ON: 8x4=32

- 3) Adhesion and mechanical bonding
- 4) Composition and setting reaction of Polyethers
- 5) Hygroscopic setting expansion
- 6) Dual Cure Resin
- 7) Zinc Oxide Eugenol Cement
- 8) Refractory Materials
- 9) Refractory Materials
- 10) Gold Foil

WRITE BRIEFLY ON: 10x2=20

- 11) Guttaparcha
- 12) Stress and strain
- 13) Die Stone
- 14) Zinc Polycarboxylate Cement
- 15) Firing in Porcelain
- 16) Sticky Wax
- 17) Galvanism
- 18) Frozen Slab Technique
- 19) Carat and Fineness
- 20) Gillmore Needle

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION - JUNE/JULY, 2018

FIRST BDS EXAMINATION (OR) SECOND BDS EXAMINATION (NR)

DENTAL MATERIALS

Time: 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) State the ideal requisites of denture base resins. Describe the composition and polymerization (curing) cycle of heat cure acrylic denture base resins. 3+3+3=9

2) Classify dental amalgam alloys. Describe the strength and creep of dental amalgam restorative material. 4+3+2=9

WRITE SHORT NOTES ON:8x4=32

- 3) Castable glass ceramics
- 4) Bonding Agents
- 5) Dental plaster Vs. Dental stone
- 6) Factors affecting cutting efficiency of dental burs
- 7) Incomplete casting
- 8) Metal modified glass ionomer cements
- 9) Wetting and contact angle
- 10) Alginate Impression Material

WRITE BRIEFLY ON:10x2=20

- 11) Pickling
- 12) Casting ring liners
- 13) Flux
- 14) Dentin primers
- 15) Ideal requisites of inlay waxes
- 16) Polishing
- 17) Die Materials
- 18) Syneresis and imbibitions
- 19) EBA cements
- 20) Yield strength

DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Types of Gypsum product. Setting reaction, properties and uses of plaster of paris. 3+2+2+2=9

2) Classification, composition and advantages of light activated composite resins. 3+3+3=9

WRITE SHORT NOTES ON: 8x4=32

3) Mercury Toxicity

4) Electrochemical corrosion

5) Stages of Annealing

6) Stoichiometric setting reaction of high copper amalgam. Add a note on Gamma two (γ_2) phase.

7) Classify Elastomeric Impression Materials

8) Porosity in dental casting alloys

9) Pit and Fissure Sealants

10) Soldering and Welding

WRITE BRIEFLY ON: 10x2=20

11) Pseudo Elasticity

12) Abrasion

13) Laminates

14) Calcium Hydroxide

15) Mat Gold

16) Surface Tension

17) Zinc Oxide Eugenol Paste

18) Marginal Ditching

19) Pulp Liners

20) Gutta Percha

DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify impression materials. Describe the composition, setting reaction and properties of irreversible hydrocolloid impression materials. 2+2+2+3=9

2) State the ideal qualities of luting cements. Describe the composition, bonding reaction and biological considerations of glass ionomer cements 3+2+2+2=9

WRITE SHORT NOTES ON:8x4=32

- 3) Acid etching technique
- 4) Creep of dental amalgam
- 5) Curing cycles of heat cure acrylic denture base resins
- 6) Dental stone
- 7) Dentifrices
- 8) Localized shrinkage porosity
- 9) Modulus of elasticity
- 10) Strengthening of dental ceramics by residual compressive stresses

WRITE BRIEFLY ON:10x2=20

- 11) Any two abrasive agents
- 12) Causes for distortion of inlay wax pattern
- 13) Classification of dental casting alloys
- 14) Zones of Flame
- 15) Ductility and malleability
- 16) Multiple mix impression technique of elastomers
- 17) Non-cohesive gold
- 18) Requirements of dental solders
- 19) Sensitization of 18 - 8 stainless steel wire
- 20) Flux and Antiflux

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
B.D.S. DEGREE EXAMINATION JANUARY, 2017
FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Discuss in detail composition, classification and properties of Porcelain. Add a note on CAD CAM ceramics. 2+2+3+2=9

2) Define tarnish and corrosion. Explain causes and types of corrosion. 2+3+4=9

WRITE SHORT NOTES ON:8x4=32

3) Evaluation tests for biocompatibility of dental materials.

4) Failure of Hydrocolloid impressions

5) Fillers in composite resin.

6) Classify direct filling gold

7) Hygroscopic setting expansion

8) Phosphate bonded investments

9) Mercury toxicity

10) β – Titanium Alloys

WRITE BRIEFLY ON:10x2=20

11) Calcium Hydroxide

12) Contact angle

13) Sprue Former

14) Advantages of Glass Ionomers

15) Solidification defects

16) Three body abrasion

17) Varnish

18) Delayed expansion

19) Co polymer

20) Smear layer

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify impression materials. Describe the composition, gelation reaction and properties of irreversible hydrocolloids. $3+2+2+2=9$

2) What are dental composites? Write in detail about the composition and properties of hybrid composite resins. $1+5+3=9$

WRITE SHORT NOTES ON:

$8 \times 4 = 32$

3) Bonding Agents

4) Gold Foil

5) Curing cycles of heat cure acrylic denture base resins

6) Dentifrices

7) High copper amalgam alloys

8) Incomplete casting

9) Micro hardness testing methods

10) Type III dental gypsum product

WRITE BRIEFLY ON:

$10 \times 2 = 20$

11) Classification of dental casting alloys

12) Composition of Zinc Oxide Eugenol Impression Pastes

13) Ductility and Malleability

14) Contact angle of wetting

15) Die materials

16) Rouge

17) Manipulation of Zinc Phosphate Cement

18) Metamerism

19) Titanium implant material

DR NTR UNIVERSITY OF HEALTH SCIENCES :: VIJAYAWADA :: AP
B.D.S. DEGREE EXAMINATION JANUARY, 2016
FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Define setting time of Gypsum products. Mention and explain different methods of measuring setting time. Add a note on theories of setting time and disinfection of Gypsum products. 2+3+2+2=9

2) Name the various anterior esthetic restorative materials used, write the composition, properties and manipulation of glass ionomer cement. Add a note on sandwich technique. 2+2+2+1+2=9

WRITE SHORT NOTES ON:

8x4=32

3) Pit and Fissure sealant

4) Composition and manipulation of inlay wax

5) Compare wrought and cast alloys

6) Back pressure porosity

7) 18-8 stainless steel

8) Dental solders

9) Microfilled composite resin

10) Calcium Hydroxide cement

WRITE BRIEFLY ON:

10x2=20

11) Cavity varnish

12) Coupling agent

13) Sprue former

14) Flux

15) Trituration

16) Strengthening of Dental Porcelain

17) Gutta percha

18) Tray Adhesive

19) Tarnish and Corrosion

20) Denture relining

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify dental ceramics. Write the composition of dental porcelain. 3+2+2+2=9
Discuss the methods of condensation of dental porcelain and uses of porcelain.

2) Write the composition, properties, advantages and disadvantages of 2+2+1+1+3=9
amalgam alloys. Add a note on classification of amalgam alloys.

WRITE SHORT NOTES ON:

8x4=32

- 3) Zinc oxide Eugenol impression paste
- 4) Syneresis and Imbibition
- 5) Gold Foil
- 6) Light cure composites
- 7) Dustless alginate
- 8) Zinc phosphate cement
- 9) Soldering and Welding
- 10) Dental implant materials

WRITE BRIEFLY ON:

10x2=20

- 11) Chemical adhesion
- 12) Pumice
- 13) Inlay Wax
- 14) Localised shrinkage porosity
- 15) Die materials
- 16) Rake angle
- 17) Sandwich Technique
- 18) Etching
- 19) Rouge
- 20) Creep

B.D.S. DEGREE EXAMINATION - JANUARY, 2015
FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify waxes used in Dentistry. Describe the composition, manipulation and uses of Inlay wax. 3+2+2+2=9

2) State the ideal requisites of luting cements. Give the composition, chemistry of setting and properties of glass ionomer cements. 2+2+2+3=9

WRITE SHORT NOTES ON:

8x4=32

3) Addition poly silicone impression material

4) Delayed expansion

5) Ductility and Malleability

6) Factors affecting cutting efficiency of dental burs

7) Hybrid composite resins

8) Ni – Ti orthodontic wire

9) Sprue former

10) Tissue conditioners

WRITE BRIEFLY ON:

10x2=20

11) Advantages of Gypsum bonded investment materials

12) Eames Technique

13) Colour parameters

14) Composition of impression compound

15) Diamond abrasives

16) Functions of separating medium

17) Non cohesive gold

18) Porcelain condensation techniques

19) Soldering flux

20) Stages of annealing heat treatment

- - -

B.D.S. DEGREE EXAMINATION JUNE, 2014
 FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
 DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Describe the composition, stages of mixing and curing cycles of heat cure acrylic denture base resins. 3+3+3=9

2) Classify gypsum materials. Discuss in detail dental stone. 3+6=9

WRITE SHORT NOTES ON:

8x4=32

- 3) Acid etching technique
- 4) Castable glass ceramics
- 5) Manipulation of reversible hydrocolloids
- 6) Zinc phosphate cement
- 7) Metal modified glass ionomer cements
- 8) Modulus of elasticity
- 9) Casting shrinkage
- 10) Conventional composites

WRITE BRIEFLY ON:

10x2=20

- 11) Baseplate wax
- 12) Composition of polyether impression material
- 13) Desorption of DFG (Direct Filling Gold)
- 14) Distinguish between abrasion and polishing
- 15) Galvanic corrosion
- 16) Trituration
- 17) Polyacrylic acid
- 18) Requirements of dental solders
- 19) Types of copolymers
- 20) Rouge

B.D.S. DEGREE EXAMINATION JANUARY, 2014
FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

- 1) Classify silver alloys; discuss composition, properties, advantages and disadvantages of Hi copper alloys. 3+2+2+1+1
=9

- 2) Classify dental ceramics. Write the composition and the mechanism of bonding porcelain to metal. 4+2+3=9

WRITE SHORT NOTES ON:

8x4=32

- 3) Osseointegration
- 4) Hybrid composites
- 5) Phosphate-Bonded investments
- 6) Dental waxes
- 7) Glass ionomer cement

- 8) Dimensions of colour
- 9) Alginate impression material
- 10) Stainless steels

WRITE BRIEFLY ON:

10x2=20

- 11) Stress and strain
- 12) Tissue conditioners
- 13) Stages of polymerization
- 14) Base
- 15) Types of setting expansion
- 16) Corrosion
- 17) Fluxes
- 18) Casting ring liners
- 19) Separating media
- 20) Rake angle

B.D.S. DEGREE EXAMINATION JUNE, 2013
FIRST BDS EXAMINATION(OR) SECOND BDS EXAMINATION(NR)
DENTAL MATERIALS

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions.

Draw neat labeled diagrams wherever necessary.

1) Classify dental impression materials. Write the composition and setting mechanism of reversible hydrocolloids. 9

2) Classify dental cements. Write the composition, setting reactions and properties of zinc polycarboxylate cements 3+2+2+2=9

WRITE SHORT NOTES ON:

8x4=32

3) Toxicity tests

4) Bonding agents

5) Casting defects.

6) Abrasives and polishing agents

7) Methods of strengthening ceramics

8) Cavity liners and bases

9) Factors affecting success of amalgam restorations

10) Hygroscopic setting expression

WRITE BRIEFLY ON:

10x2=20

11) Creep and flow

12) Soft liners

13) Internal porosity of denture base

14) Yield strength

15) Dental plaster

16) Tarnish

17) Forms of direct filling gold

18) Divestment

19) Dental burs

20) Implant materials

402OR/421NR-FIRST B.D.S. DEG.EXAM-DECEMBER, 2012- (OR) SECOND BDS EXAM-(NR)

DENTAL MATERIALS-Time : 3 Hours-Max. Marks: 70-Answer all questions-Draw neat labeled diagrams wherever necessary.

1..Discuss in detail the composition, setting reaction, properties and uses of Alginate impression materials $3+2+2+2=9m$

2..Classify composite resins. Write the composition, properties and uses of hybrid composites $3+2+2+2=9m$

Write Short Notes On: $8 \times 4=32m$

3. Biocompatibility 4. Diffusion 5. Gypsum-Bonded investments 6.Physical stages of Polymerization

7. Castable ceramics 8. Glass Ionomer Cement 9. Types of silver alloys 10.Soldering and Welding

Write Briefly On: $10 \times 2=20m$

11.Dimensions of color 12.Etching 13.Zones of Flame 14.Proportional Limit 15.Dental Stone

16.Cavity Varnishes 17.Pit and Fissure sealants 18.Karat and fineness

19.Types of casting machines 20.Sandwich Technique

421NR-SECOND B.D.S. DEGREE EXAMINATION – JUNE, 2012-DENTAL MATERIALS

1..Classify Dental Cements. Discuss the Composition, setting reaction and uses of zinc phosphate Cement= $9m$

2..Classify Investment Materials. Discuss in Brief about Gypsum Bonded Investment Material= $9m$

Write short notes on:

3..Polycarboxylate Cement 4..Admixed Alloys. 5..Casting Shrinkage 6..Impression Compound

7..Advantage of Acrylic Resin as a Denture Base Material 8..Condensation and Firing of Porcelain

9..Hygroscopic setting expansion 10.Flow and Creep

Write briefly on:

11.Annealing 12.Gutta percha 13.Dental Implant Materials 14. Rouge 15.Flux

16. Powdered Gold 17.Galvanism 18. Gama – 2 Phase 19. Epoxy Resin Dies 20.Percolation.

421/402-1st / 2nd B.D.S. DEGREE EXAMINATION – DECEMBER,2011/JANUARY, 2012

1..What is biocompatibility? Describe the biological considerations of dental materials= $2+7=9m$

2..Discuss in detail the composition, properties, setting reaction, advantages and disadvantages of Glass Ionomer Cements= $2+2+2+2+1=9m$

Write Short Notes On: $8 \times 4=32m$

3..High Fusing alloys. 4..Alginate impression material. 5..Composition of Ceramics. 6. Trituration.

7..Cobalt Chromium Alloys. 8. Degassing and compaction procedures in Direct Filling Gold.

9. Physical stages of polymerization. 10. 18/8 stainless steel.

Write Briefly On: $1-0 \times 2=20m$

11. Die materials. 12. Sticky Wax. 13. Zones of flame. 14. Hue, Value and Chroma.

15. Delayed expansion. 16. Pickling. 17. Calcium Hydroxide. 18. Carat and Fineness.

19. Advantages of EBA cements. 20. Ductility and Malleability.

421/402-FIRST B.D.S. DEGREE EXAMINATION – JUNE, 2011-DENTAL MATERIALS-OR(First

1..Classify composite Resins and describe in detail the composition, properties and uses of hybrid composites= $9m$

2..Classify waxes in dentistry. Write the composition of inlay waxes. Explain the procedures for obtaining the wax pattern for an inlay restoration= $9m$

Write Short Notes On: $8 \times 4 =32m$

3..Types and causes of casting defects. 4. Resin modified glass ionomer

5. Composition and setting reaction of polyethers. 6. Tissue conditioners

7. Bonding Agents. 8. Define stress and strain. Mention different types of tests for testing hardness

9. Soldering and types of Dental Soldering techniques. 10.Zinc oxide Eugenol impression paste

Write Briefly On: $10 \times 2 =20m$

11.EAMES' Technique. 12.Sensitization and Stabilization 13.Rake angle

14.Pit and fissure sealants. 15.Biological effects of mercury 16.Cavity liners

17.Composition of Dentifrices. 18.Sandwich Technique 19.Syneresis and Imbibition 20.Cement base.

421/402-FIRST & SECOND B.D.S. DEG. EXAM – JANUARY, 2011-DENTAL MATE.

1..Classify and give the ideal requirements of the denture base materials and discuss various modes of polymerization of denture base resins=9m

2. Enumerate various base metal alloys and write in detail about stainless steel=9m

Write Short Notes On: $8 \times 4 = 12m$

3. Die stone 4. Compressive strength 5. Impression compound 6. Resilient liners
7. Fillers in Impression Materials 8. High Copper Amalgam Alloys 9. Glass Ionomer cements
10.Vacuum fired porcelains

Write Briefly On: $10 \times 2 = 20m$

11.Factors affecting rate of abrasion 12.Zinc Oxide Eugenol cements 13.Flux and anti flux
14. Electropolishing 15. Residual Monomer 16. Wet Corrosion 17. 18-8 stainless steel
18. Annealing 19. Sodium Alginate solution 20.Welding and soldering

421-SEOND B.D.S. DEG. EXAMINATION – JANUARY, 2010-DENTAL MATERIALS-(New Reg.)

1..Classify impression materials. Write the composition and setting reaction of Zincoxide-Eugenol impression paste-9m

2..Write the composition and manipulation of Glass ionomer cement=9m

Write Short Notes On: $8 \times 4 = 32m$

3. Creep and flow 4. Physical properties of polymers 5.Accelerators and retarders
6. Microfilled composites 7. Types of dental ceramics 8. Casting machines
9. Tissue conditioners 10.Zinc phosphate cement

Write Briefly On: $10 \times 2 = 20m$

11.Ductility and malleability 12.Bonding agents 13.Acid etch technique 14.Twinning
15.Measurement of setting time 16.Soldering and welding 17.Composition of admixed alloys
18.Casting ringliner 19.Biocompatibility 20.Stress corrosion

402-FIRST B.D.S. DEG. EXAM – JANUARY, 2010-DENT. MAT. & METLLURGY (O.R.)

PART-A (35 MARKS)

1..Describe the composition, manipulation and uses of Inlay Casting Wax=9m

Write Short Notes On: $4 \times 4 = 16m$

2. Bur Materials 3. Casting Shrinkage 4. Gamma I phase 5. Divestment

Write Briefly On: $5 \times 2 = 10m$ =6. Eutectic and Peritectic alloys 7. Hygroscopic Expansion

8. Silicate Cement 9. Hardness 10.Dentin Bonding Agents

PART-B(35 MARKS)

11.Classify gypsum materials. Discuss in detail dental stone=9m

Write Short Notes On: $4 \times 4 = 16m$

12.Gold Foil 13. Base Metal alloys 14.Curing cycle of Denture Base Resins 15.Soft Liners

Write Briefly=16.Pumice 17.Brazing 18.Creep 19.Wetting agent 20.Rake angle in bur tooth

SECOND B.D.S. DEGREE EXAMINATION – JUNE, 2009-DENTAL MATERIALS-N.R.

1..Classify impression materials. Write the composition and setting reaction of alginate=9m

2. Write the composition and manipulation of zinc phosphate cement=9m

Write Short Notes On: $8 \times 4 = 32m$

3. Adhesion and bonding 4. Acrylic dental resins-physical properties.
5. Hygroscopic setting expansion 6. Traditional composites

7. Castable glass-ceramics 8. Causes of defective castings
 9. Compression molding technique 10. Resin-modified glass ionomer cement

PART-A (35 MARKS)

1..What are adhesive cements? Describe the composition, manipulation and uses of type I Glass Ionomer Cement (GIC)=9m

Write Short Notes On: 4 X 4 =16m

2. Calcium Hydroxide 3. Galvanism 4. Dual Core Resin 5. Polyether rubber base impression material

Write Briefly On: 5 x 2 =10m

6. Abrasion and Polishing 7. Plaster of Paris 8. Bonding Agents 9. Flux 10. Sandwich Technique

PART-B(35 MARKS)

11. Classify Dental amalgam alloys and discuss the composition, setting reaction and advantages of High-Copper amalgam alloy=9m

Write Short :4 x 4=12. Soldering and Welding 13. Annealing 14. Zinc Oxide Eugenol 15. Base plate wax

Write Briefly On: 5 x 2 =10m

16. Suck back porosity 17. Stress and Strain 18. Sprue former 19. Tissue conditioner 20. Gutta Percha

Write Briefly On: 10 X 2 =20m

11. Elastic modulus 12. Finishing and polishing agents 13. Types of stainless steel 14. Annealing

15. Disadvantages of addition silicone 16. Classification of casting alloys 17. Trituration

18. Die materials 19. Toxicity tests 20. Electrochemical corrosion

402-FIRST B.D.S. DEG. EXAM – JUNE, 2008-DENTAL MATERIALS & METLLURGY (O.R.)

PART – A (35 MARKS)

1..Classify Gypsum products. Write the composition, setting reaction of dental Plaster and dental stone=9m

Write Short Notes On=4x4=2. Bonding Agent 3. Heat Cure Acrylic Resin

4. Accelerators and Retarders for Gypsum products 5. Condensation Silicone Impression Material.

Write Briefly on=5x2=10m=6. Modulus of Elasticity. 7. Wet Field Technique.

8. Copolymerization. 9. Porosity in Denture Base. 10. Fusion Temperature.

PART – B (35 MARKS)

11. Classify Dental cements according to the use and give in detail the composition, setting reaction and properties of zinc polycarboxylate cements=9m

Write Short Notes On:= 4x4=16

12. Gypsum Bonded Investment. 13. Cavity varnish, liner and base.

14. Composition of Restorative porcelain. 15. Design of Dental bur.

Write Briefly On:= 5x2=10m

16. Delayed Expansion. 17. Creep. 18. B – Titanium alloy. 19. Welding and soldering. 20. Dentifrices.

402-B.D.S. DEGREE EXAMINATION – FEBRUARY, 2008-FIRST BDS EXAM

PART – A (35 MARKS)

1. Classify Impression Materials. Describe the Composition, setting reaction, manipulation of Impression Compound.=9m

2. Write Short Notes On: =4x4=a) Light cure Composite resin b) Hygroscopic setting Expansion

c) Composition of Alginate Impression material d) Duplicating Materials

3. Write Briefly On:= 5x2=a) Crosslinking agents for Acrylic resin b) Separating Media

c) Polyurethane polymer d) Soft liner e) Ductility and Malleability

PART – B (35 MARKS)

1. Classify Dental Cements. Add a note on Glass ionomer Cement.=9m
2. Write short notes on: =4x4=a) Zinc Oxide Eugenol Cement b) Stages of firing of Dental Porcelain
c) Metal-Ceramics d) Abrasives and Polishing agents
3. Write briefly: =5x2=a) Annealing b) Mechanical Trituration c) Divestment d) Flux e) Nitinol

NR=AUGUST, 2007-FIRST BDS EXAM -DENTAL MATERIALS & METLLURGY

Part-A

1. Classify Impression materials. Describe the composition, Setting reaction and uses of Irreversible Hydrocolloid Impression material=9m

Write short notes on: 4 x 4 =16m; 2. Stress and strain 3. Hygroscopic setting expansion

4. Physical stages of polymerization 5. Electroformed dies

Write briefly on: 5 x 2 =10m; 6. Hysterisis and its significance 7. Synthetic gypsum

8. Residual monomer 9. Sodium alginate solution 10. Micro leakage and its significance

Part-B

11. Write the Skinners classification of Dental cements. Describe the Zinc Phosphate Cement=9m

Write short notes on: 4 x 4 =16m; 12. High copper amalgam alloys 13. Hybrid composite resins

14. Compositon and properties of Inlay was 15. Aluminous porcelain

Write briefly on: 5 x 2 =10m; 16. Gold foil 17. Wet corrosion 18. Incomplete casting

19. Pumice 20. Enumerate dental implant materials

APRIL, 2007

PART - A

1. Classify gypsum materials. Discuss in detail the Dental plaster=9m
2. Write short: 4x4=a) Dimensions of colour b) Corrosion c) Filled resins d) Describe the properties of dental wax
3. Write briefly on: 5x2=10=a) Refractory materials b) Describe the composition of dental ceramics
c) Syneresis and Imbibition d) Role of plasticizer in acrylic resins e) Resiliency

PART – B

1. Classify dental casting alloys. Describe the mechanical properties of casting gold alloys. Add a note on heat treatments=9m.
2. Write short notes on: 4x4=16=a) Micro filled composite resins b) Zinc poly carboxylate cement
c) Setting reaction of high copper amalgam alloys d) Cavity liners and bases
3. Write briefly on: 5x2=a) Frozen glass slab method b) Casting ring liner c) Solders d) 18-8 stainless steel
e) Laminate technique

SEPTEMBER.-2006

Part-A

1. Classify denture base materials. Describe the compression molding technique=9m
2. Write short notes on: 4 x 4 =16m; a) Gypsum bonded investment material b) Hardness c) Die stone
d) Manipulation of rubber base impression material
3. Write briefly on: 5 x 2 =10m; a) Ductility and malleability b) Soldering and Welding
c) Non eugenol impression paste d) Nitinol e) Percolation

Part-B

4. Classify dental amalgam alloys. Describe the composition, properties & manipulation of admixed amalgam alloys
5. Write short answers on: 4 x 4 =16m; a) Glass Ionomer cement b) Dentine bonding agents
c) Properties of metal ceramic alloys d) Induction casting machine
6. Write briefly on: 5 x 2 =10m; a) Mat gold b) Glaze c) Curing cycles d) Tissue conditioners

e) Composition of impression compound.

FEBRUARY-2006

Part-A

1. Classify composite resins and describe in detail the composition, properties and uses of hybrid composites=9m
2. Write short answers on: 4 x 4 =16m; a) Free radical polymerization
b) Composition and properties of alginate impression material
c) Setting reaction and chemical stages in setting of gypsum d) Stress-Strain curve
3. Write briefly on: 5 x 2 =10m; a) Significance of fusion temperature of impression compound
b) Non-eugenol impression paste c) Fissure conditioners d) Activators and initiator in cold acrylic resins
e) Composition of Additions Silicone impression material

Part-B

4. Classify Dental cements according to the use and give in detail the composition, setting reaction and properties of zinc polycarboxylate cements=9m
5. Write short answers on: 4 x 4 =16m; a) Properties of Dental amalgam b) Types of Direct filling gold
c) Stabilization and sensitization of stainless steel d) Porosities in dental casting
6. Write brief answers on: 5 x 2 =10m; a) Sticky wax b) Softening heat treatment c) Uses of Titanium
d) Polishing agents for cast restorations e) Glazing

AUGUST-2005 (New Regulations)

Part-A

1. Enumerate the final impression materials for edentulous arches and write about composition, manipulation and properties of the Zinc Oxide Eugenol Impression pastes =9pages
2. Write short answers on: 4 x 4 =16marks; a) Curing cycles for heat cure acrylic resin
b) Biocompatibility of Dental Materials c) Separating media used in dentistry d) Die stone
3. Write briefly on: 5 x 2 =10m=a) Define Glass transition temperature b) Contents in composite resins
c) Mention activating systems for autopolymerising resins d) Define elasticity and stiffness
e) Drawbacks of alginates

Part-B

4. Classify silver amalgam alloys. Write in detail composition and setting reaction of high-copper silver alloys=9m
5. Write short answers on: 4 x 4 =16marks; a) Glass ionomer cement b) Sprue-formers
c) Ideal requirements of Dental solder d) Factors affecting rate of abrasion
6. Write brief answers on: 5 x 2 =10marks; a) Define and give the purpose of degassing gold foil
b) Purpose of condensation of amalgam mass in cavity
c) Contents in Zinc Polycarboxylate cement powder and liquid d) Die hardener and die spacer
e) Define sensitization and stabilization

MAR/APR.2005.

Part-A

1. Enumerate various synthetic resins and discuss the composition and manipulation and uses of Heat-cure acrylic resins=9marks
2. Write short notes on: 4 x 4 =16marks; a) Polyether rubber base impression material
b) Composition of composite resins c) Dental stone d) Pit and fissure sealants
3. Write briefly on: 5 x 2 =10marks; a) Ductility and Malleability b) Hygroscopic expansion
c) Setting of polysulphide rubber base material d) Di-vestment e) Wet-field technique

Part-B

4. Classify Dental amalgam alloys and discuss the composition, setting reaction and advantages of High-Copper

amalgam alloy =9marks

5. Write short answers on: 4 x 4 =16marks; a) Liners and bases for dental restoration
b) Metal-ceramic bond
c) Abrasive agents used in dentistry d) Contents in Dental Casting Gold alloys
6. Write brief answers on: 5 x 2 =10marks; a) Composition of inlay wax b) Types of Dental Ceramics
c) Setting reaction of Zn-PO₄ Cement d) Cohesive Gold e) Flux and anti flux

OCTOBER, 2004. (New Regulations)

Part-A

1. Classify impression materials. Describe the composition, setting reaction and factors affecting setting time of Zinc Oxide Eugenol paste =9m
2. Write short answers on: 4 x 4 =a) Duplicating materials b) Die stone c) Curing cycles d) Dimensions of colour
3. Write briefly on: 5 x 2 =a) Syneresis and Imbibition b) Synthetic Gypsum c) Coupling agents in composite resins
d) Reline technique for elastomeric impressions e) Cross linking agents and their role in acrylic resins.

Part-B

4. Discuss various steps in casting procedure of inlay and add a note on shrinkage porosity=9m
5. Write short notes on: 4 x 4 =16m; a) Admixed dental amalgam alloys b) Glass ionomer cements
c) Properties desirable in metal-ceramic alloys d) Baking stages in dental porcelain
6. Write briefly: 5 x 2 =a) Baseplate wax b) Mat gold c) Advantage of resin cements d) Nitinol e) Diamond.

APRIL/MAY, 2004

Part-A

1. Enumerate various gypsum products and write in detail about manufacturing and standardization of Dental plaster and Dental stone =9marks
2. Write short answers : 4 x 4;a) Peripheral Tracing sticks b) Addition Silicone Rubber base impression materials.
c) Hardness d) Self cure acrylic resin.
3. Write briefly on: 5 x 2 =a) Purpose of soft liners b) Mention purpose of acid etching
c) Modes of activation for polymerization d) Craze in acrylic bases
e) Role of Trisodium phosphate in alginate

Part-B

4. Enumerate various casting investment materials and write in brief about contents, manipulation and care while using Phosphate Bonded investment materials. =9marks
5. Write short answers on: 4 x 4 =16marks; a) Composition of dental porcelain
b) Ideal requirements of inlay casting wax c) Electro-chemical corrosion d) Creep in amalgam
6. Write briefly on: 5 x 2 =10marks; a) Purpose of die spacer b) Define carat and fineness of gold alloys
c) Vent sprues d) Contents in modeling wax e) Pumice

OCTOBER, 2003. (N.R.)

Part-A

1. Write in brief about requisites for dental resins and composition, manipulation and processing of the heat cure acrylic resin. =9marks
2. Write short answers on: 4 x 4=a) Duplicating materials b) Pit and fissure sealants c) Modulus of elasticity
d) Classification of resin based composites.

3. Write briefly on: 5 x 2 =10marks; a) Mention fillers in Dental Materials b) Syneresis and imbibition
c) Binders for casting investments d) Define electroplating and electropolishing e) Contents in die stone

Part-B

4. Classify Dental Cements and write in brief about recent advances in Zinc Phosphate Cement. 9marks
5. Write short answers on: 4 x 4 =16marks; a) Alloys for metal ceramics b) Fluxes used in Soldering
c) Polishing agents d) Types of Stainless Steel
6. Write briefly on: 5 x 2 =10marks; a) Cavity liners b) Back pressure porosity
c) Contents in admixed silver alloys d) Define Trituration and condensation of amalgam. e) Uses of Titanium.

APRIL, 2003. (N.R.)

Part-A

1. Write in detail about composition, manipulation & disadvantages of irreversible hydrocolloid impression materials
2. Write short answers on: 4 x 4 =16m=a) Gypsum bonded investments for casting b) Curing cycles
c) Soft liners for dentures d) Contents and their role in composite resins
3. Write brief answer: 5 x 2=a) Name any two pit and fissure sealants b) Uses of peripheral tracing compound
c) Craze in acrylic resin d) Wet and dry strength e) Test for measuring setting time

Part-B

1. Enumerate various dental casting alloys. Write in brief about content of gold alloys =9marks
2. Write short answers on: 4 x 4 =16m=a) Ideal requirements of dental casting waxes. b) Casting defects
c) Phosphate banded investment d) Firing of dental porcelains
6. Write briefly: 5 x 2 =; a) Any four polishing agents b) Define Heat hardening and softening treatment
c) Contents of cavity varnishes d) Types of stainless steel e) Direct filling gold various type

OCTOBER, 2002

Part-A

1. Classify impression materials and describe in detail about contents, setting and properties of silicon rubber base impression material=9marks
2. Write short answers on: 4 x 4 =16 a) Stress and Strain relation b) Die stone
c) Autopolymerising Acrylic resins d) Causes for porosities in resins
3. Write briefly: 5 x 2=a) Define hygroscopic expansion b) Physical stages in mixing of heat cure acrylic resin
c) Uses of agar-agar d) Define Imbibition & Syneresis e) Mention accelerator & retarder for ZOE paste.

Part-B

3. Classify Dental Amalgam alloys and write in detail about admixed Silver alloys =9marks
4. Write short answers on: 4 x 4=16 a) Ideal requirements of Orthodontic wires
b) Composition of various chrome-cobalt alloys c) Compensation of Casting Shrinkage d) Compomers
5. Write briefly on: 5 x 2 =10marks=a) Mention methods of melting of dental casting alloys
b) Define and give the cause of 'Suck back' porosities in casting
c) Uses of Tungsten Carbide d) Mention types of bond between porcelain and metal
e) Uses of modelling wax.

10th August, 2001.–

Part-A

1. Classify and give ideal requirements of impression materials and discuss in detail contents, manipulation and merits of Poly vinyl siloxane impression material –10marks
2. Write short Notes: 6x5=30m=a) Pit & fissure sealants b) Autopolymerising resins

- c) Hygroscopic expansion d) Hardness tests e) Agar-agar

Part-B

1. Classify Dental amalgam alloys. Describe composition and properties of high copper containing silver alloys. Add a note on setting reaction upon trituration -10marks
2. Write short Notes: 6x5=30m=a) Ideal properties of orthodontic wires b) Welding in dentistry
c) Wet corrosion d) Meta-ceramic alloy e) Glass ionomer cement f) Pumice

FEBRUARY, 2000.

Part-A

1. Give the classification of Waxes. Write in detail about inlay casting wax =10marks
2. Write short notes on: 6x5=30m=a) Asbestos liner b) Spruing c) Gold alloys d) Eutectic solutions
e) Wrought metals f) Stages in Polymerization reaction

Part-B

3. What is amalgam? Give the classification properties and manipulation of dental amalgam =10marks
4. Write short notes on: 6 x 5 =30m=a) Heat cure acrylic b) Zinc oxide eugenol paste c) Dental Plaster
d) Chromium-cobalt alloys e) Shrink-free ceramics

OCTOBER, 1999.

Part-A

1. What are gypsum products? Write in detail about the manipulation & properties of alpha Hemihydrate material
2. Write short notes on: 6 x 5 =30m=a) Ductility and malleability b) Tarnish and corrosion
c) Soldering d) Syneresis and imbibition e) Die and counter die materials f) Calcium Hydroxide

Part-B

3. What are base metal alloys? Describe different base metal alloys used in Dentistry?
4. Write short notes on: 6x5=a) Silicate Cement b) Admixed alloys c) Cavity Varnishes
d) Abrasives e) Modelling wax f) Pickling solutions.

10th April, 1999.

Part-A

1. Classify impression materials and discuss in detail about composition, manipulation and properties of elastomeric impression material =10marks
2. Write short notes on: 6x5=a) Wanderval forces b) Separating media c) Hydroscopic expansion
d) Polymerization reaction e) White gold alloys f) Pit and fissure sealants

Part-B

3. What do you understand by 'luting agents'? Mention the different luting agents and discuss the requirements of luting agents =10marks
4. Write short: 6x5=a) Stainless steel alloys b) Agar-Agar material c) Cermet d) Copper amalgam e) Polishing ag

OCTOBER, 1998.

Part-A

1. Write in detail about composition and manipulation & properties of irreversible hydrocolloid impression material
2. Write short notes on: 6x5=a) Stress and Stain b) Biologic consideration for selection of dental materials
c) Porosities in acrylic resin d) Tissue conditioners e) Casting Waxes
f) Accelerators and retraders to gypsum products.

Part-B

3. Classify noble metal casting alloys. Discuss the typical compositions of noble metal casting alloys =10marks
4. Write short notes: 6x5=a) Ideal requirements of base and cavity liners b) Zinc polycarboxylate cement

- c) Electro polishing d) Compensation of casting shrinkage f) Diamond as an abrasive

APRIL, 1998

Part-A

1. Enumerate various denture base material mention ideal requirements of Denture base resins and stages in polymerization-10

2. Short Notes: a) Impression Plaster b) Duplicating Materials c) Creep d) Pit and fissure sealants

e) Imbibition and Syneresis f) Filters in Dental Materials –6x5=30marks

Part-B

1. Discuss in detail composition of Dental Porcelains. Add a note on Glazing –10marks

2. Short Notes: a) Resin Cements b) Fluxes for soldering c) Cavity liners d) Casting defects

e) Role of inradiants in noble metal casting alloys

f) Composition & setting reaction of Phosphate bonded investments

OCTOBER, 1997.

Part-A

1. What is Elastomer? Enumerate various elastometric impression materials and write in detail about addition silicone rubber base materials –10marks

2. Short notes on any FIVE=5x5=a) A.D.A.–Specification b) Microfilled composite resin

c) Peripheral tracing compound d) Hardness tests e) Die materials f) Composition of cold cure acrylic resin

Part-B

3. Classify Dental amalgam alloys. Write in detail about composition and advantages of High copper containing silver amalgam alloys –10marks

4. Short notes: 5 x 6 =30marks a) Glass ionomer cement b) Requirements of metal for metal ceramics

c) Factors affecting rate of abrasion d) Hygroscopic expansion e) Modelling waxes f) 18-8 stainless steel

APRIL, 1997.

Part-A

1. Classify investment materials. Describe in detail gypsum Bonded investment –10marks

2. Short Notes: a) Copper rich Amalgam alloy b) Sprue c) Soldering d) Polyether impression materials

e) Inlay Wax =5 x 5 =25marks

Part-B

3. Give Ideal requirement of denture Base Materials. Explain the defects seen in Heat cure acrylic resin denture base=10m

4. Short notes on : a) Denture reliners b) Poly carboxylate cement c) Microfilled composite resin

d) Polishing agents e) Setting reaction in Alginates f) Advantages of Dental Porcelain as restorative material

=6x5

OCTOBER, 1996.

Part-A

1. Classify Waxes. Write in detail about inlay waxes. =10marks

2. Short Notes: a) Direct bonding cement b) Gypsum bonded investment c) Sprue d) Polishing agents

e) Mat Gold f) Strength and hardness =5x5=25marks

Part-B

3. What are heat cure resins? Give the composition, properties and manipulations of Heat cure Resins =10m

4. Short Notes: a) Chrome-Cobalt b) Irreversible impression material c) Tarnish d) Dental plaster

e) Model Cement f) High cure Amalgam 5 x 6 =30marks

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
B.D.S. DEGREE EXAMINATION – DECEMBER 2022
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A –PATHOLOGY (35 MARKS)

1. Define Necrosis, Discuss the morphology of the different types of necrosis with suitable diagrams. Mention three differences between necrosis and apoptosis 1+8=9

WRITE SHORT NOTES ON:

4x4=16

- 2 Pleomorphlc adenoma
 3 Precancerous lesions
 4 Vitamin A deficiency
 5 Osteoclastoma

WRITE BRIEFLY ON:

5x2=10

- 6 Factors affecting wound healing
 7 Differences between red and white infarct.
 8 Blood picture of chronic myeloid leukemia
 9 Ameloblastoma
 10 Bone marrow aspiration

PART- B - MICROBIOLOGY(35 MARKS)

- 11 Define hepatitis virus. Classify the various hepatitis virus with a representative diagram. Explain the pattern of immune response after vaccination against hepatitis. B. 2+4+3=9

WRITE SHORT NOTES ON:

4x4=16

- 12 Mucor mycosis
 13 Life cycle of Ascaris humbricoides
 14 Anaphylaxis
 15 Disinfection

WRITE BRIEFLY ON:

5x2=10

- 16 Difference between secretory IgA and serum IgA
 17 Causes of bacterial pyogenic abscess
 18 Causes of cold abscess
 19 Mention two mobile genetic elements
 20 Mention two modified acid- fast organisms.

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE 2022

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A –PATHOLOGY (35 MARKS)

1. Mention the routes of spread of a malignant tumor, discuss vascular mode of spread. Mention two methods of lab diagnosis of tumour with examples. **1+8=9**

WRITE SHORT NOTES ON:

4x4=16

- 2 Fatty change
3 Pathogenesis and complication of sickle cell anemia
4 Pellagra
5 Basal cell carcinoma

WRITE BRIEFLY ON:

5x2=10

- 6 Fate of thrombus
7 Gangrene
8 ESR
9 Air embolism
10 Congenital syphilis

PART- B - MICROBIOLOGY(35 MARKS)

- 11 Classify mycobacteria, Describe the pathogenesis and lab diagnosis of pulmonary tuberculosis. **2+4+3=9**

WRITE SHORT NOTES ON:

4x4=16

- 12 Generic mechanism of bacterial resistance
13 Innate immunity
14 Borrelia vincenti
15 Lab diagnosis of fungal infections.

WRITE BRIEFLY ON:

5x2=10

- 16 Mention two viral lesions involving oral cavity
17 Give two examples of non- sporing anaerobes
18 Draw a neat diagram of Hydatid cyst and label its parts
19 Give two examples of gaseous disinfectants
20 Draw and label a neat diagram of IgM

419/404

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – NOVEMBER 2021

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A –PATHOLOGY (35 MARKS)

1. Define Neoplasia. Write the differences between Benign and Malignant tumors. **1+8=9**

WRITE SHORT NOTES ON: **4x4=16**

- 2 Apoptosis
3 Septic shock
4 Warthin's tumor
5 Chemical mediators in acute inflammation

WRITE BRIEFLY ON: **5x2=10**

- 6 Bone marrow picture in acute myeloid leukemia
7 Vascular changes in hypertension
8 Fallot's tetralogy
9 Two differences between Dystrophic and metastatic calcification
10 Ghon's complex

PART- B - MICROBIOLOGY(35 MARKS)

- 11 Define antigen-antibody reaction. Classify the various types of antigen-antibody reactions with diagram. Discuss its application in day to day practice in various diseases. **2+4+3=9**

WRITE SHORT NOTES ON: **4x4=16**

- 12 Acquired immunity
13 Oral microbiota
14 Risk factors for oral thrush and its prevention
15 Polymerase chain reaction as diagnostic method

WRITE BRIEFLY ON: **5x2=10**

- 16 Oral treponemes
17 Mention four bacteria causing meningitis
18 Two vaccine preventable viral diseases
19 Causes of membranous lesions in the throat
20 Viable but non cultivable bacteria.

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DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

**B.D.S. DEGREE EXAMINATION – APRIL, 2021
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY**

(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A –PATHOLOGY (35 MARKS)

1. Classify diabetes mellitus. Discuss about Etiopathogenesis and laboratory investigation in Diabetes Mellitus . **1+8=9**

WRITE SHORT NOTES ON:

4x4=16

- 2 Types II hypersensitivity reaction
3 Paraneoplastic syndrome
4 Osteogenic Sarcoma
5 Healing of fracture

WRITE BRIEFLY ON:

5x2=10

- 6 Bone marrow picture in Megaloblastic anemia
7 Special stains to demonstrate amyloid
8 Role of free radicals in inflammation
9 Name four oncogenic microbes
10 Rickets

PART- B - MICROBIOLOGY(35 MARKS)

- 11 Define media. Classify the various types of media ? Explain in detail about some selective media used in bacteriology **2+4+3=9**

WRITE SHORT NOTES ON:

4x4=16

- 12 Types of antibodies
13 Fungal cell wall with diagram
14 Life cycle of Entamoeba histolytic
15 T helper cells

WRITE BRIEFLY ON:

5x2=10

- 16 Mention two oral bacterial commensals
17 Importance of bacteriophage
18 Mode of transmission of corona virus
19 Bacteria causing caries
20 Mention some viral diseases transmitted by mosquitoes.

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
B.D.S. DEGREE EXAMINATION – NOVEMBER, 2020
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks: 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A –PATHOLOGY (35 MARKS)

1. Classify Hemolytic Anemia. Write in detail about laboratory investigations in hemolytic Anemia **1+8=9**

WRITE SHORT NOTES ON:

- 2 Pleomorphic Adenoma **4x4=16**
 3 FAB Classification of Acute Leukemia
 4 Type IV hypersensitivity reaction
 5 Factors affecting wound healing.

WRITE BRIEFLY ON:

- 6 Pathways of spread of Metastasis **5x2=10**
 7 Fate of Thrombi
 8 Reed Sternberg (RS) cell
 9 Name histological sub-types of Ameloblastoma
 10 Differential diagnosis of white patch in oral cavity

PART- B - MICROBIOLOGY(35 MARKS)

- 11 Define sterilization. Name moist heat sterilization methods. Describe briefly Principle and functioning of autoclave. **2+4+3=9**

WRITE SHORT NOTES ON:

- 12 Actinomycetes **4x4=16**
 13 Mumps virus
 14 Anaerobic streptococci
 15 Acquired immunity

WRITE BRIEFLY ON:

- 16 Name two exotoxin producing bacteria and disease produced by them **5x2=10**
 17 Oral Treponemes
 18 DPT vaccine
 19 Pathogenesis of HIV Infection
 20 Candida albicans

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008
B.D.S. DEGREE EXAMINATION – JANUARY, 2020
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they Will not be valued. Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART – A – PATHOLOGY (35 MARKS)

1) Define inflammation. Discuss the cellular events of acute inflammation **1+8=9**

WRITE SHORT NOTES ON:

4x4=16

2) Mechanism of healing by primary intention

3) Pathogenesis of primary tuberculosis

4) Basal cell carcinoma

5) Clinical features and diagnosis of acute lymphoblastic leukemia

WRITE BRIEFLY ON:

5x2=10

6) White infarct

7) Fatty change

8) Hypertrophy

9) Dysplasia

10) Air embolism

PART- B - MICROBIOLOGY(35 MARKS)

11) What are pyogenic cocci? Discuss in detail about the various cariogenic Streptococci and its mode of spread. How will you proceed for laboratory diagnosis and its treatment? **2+4+3=9**

WRITE SHORT NOTES ON:

4x4=16

12) Need for sterilization in dental care

13) Oral lesions of syphilis

14) Ig G antibody

15) Oral thrush

WRITE BRIEFLY ON:

5x2=10

16) Name some parasitic diseases transmitted by mosquitoes

17) Name some methods to culture viruses

18) Differences between type 2 and type 3 hypersensitivity reactions

19) Methods of gene transfer

20) Mention two fungal pathogens causing lesions in the mouth and throat regions

Q.P. CODE:419/404

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JANUARY, 2019

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define inflammation. Classify the various chemical mediators of inflammation. Write a note on vasoactive amines. 1+5+3=9

WRITE SHORT NOTES ON:

4x4=16

- 2) Blood picture in megaloblastic anemia
3) Etiology and lesions in Scurvy
4) Gross and microscopic picture of basal cell carcinoma
5) Differences between benign and malignant tumour

WRITE BRIEFLY ON:

5x2=10

- 6) Benzidine test
7) Anaphylaxis
8) Fat embolism
9) Osteoma
10) Caseation necrosis

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define and classify Hypersensitivity. Describe type 1 Hypersensitivity. 2+3+4=9

WRITE SHORT NOTES ON:

4x4=16

- 12) Nonsporing anaerobes
13) Streptococcus mutans
14) Autoclave
15) Measles virus

WRITE BRIEFLY ON:

5x2=10

- 16) Hepatitis B Vaccine
17) Endotoxin
18) Vincent's angina
19) Entamoeba histolytica
20) Transport media

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DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2018

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define thrombosis. Write the etiopathogenesis of thrombus formation. Add a note on fate of thrombus. 2+4+3=9

WRITE SHORT NOTES ON: 4x4=16

- 2) Complications of Diabetes Mellitus
3) Primary Complex
4) Beriberi
5) Gross and Microscopy of Osteoclastoma

WRITE BRIEFLY ON: 5x2=10

- 6) Routes of metastasis
7) Nutmeg Liver
8) Erythrocyte sedimentation rate
9) Causes of proteinuria
10) Cardinal signs of inflammation

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define and classify antibodies. Add a note on structure and functions of IgG 2+3+2+2=9

WRITE SHORT NOTES ON: 4x4=16

- 12) Tissue culture and its applications
13) Laboratory diagnosis of Pulmonary Tuberculosis
14) Immune response in a non immune *Toxoplasma gondii* infected mother
15) Hot air oven

WRITE BRIEFLY ON: 5x2=10

- 16) Mention two types of filters used in sterilization
17) Mention two media used to culture *Candida*
18) Mention some oncogenic viruses
19) Difference between types 1 and 3 hypersensitivity reactions
20) Mention two mycobacteria belonging to *Mycobacterium avium* complex

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Discuss the differences between primary and secondary wound healing. Explain the sequence of events in repair of bone fracture. 5+4=9

WRITE SHORT NOTES ON:4x4=16

- 2) Idiopathic thrombocytopenic purpura
3) Risk factors of Atherosclerosis
4) Precancerous lesions
5) Causes of edema

WRITE BRIEFLY ON:5x2=10

- 6) Fibrous dysplasia
7) Types of infarcts
8) Ghon focus
9) Dystrophic calcification
10) Liquefactive necrosis

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define sterilization. Classify sterilization methods and write about chemical methods of sterilization. 1+3+5=9

WRITE SHORT NOTES ON:4x4=16

- 12) Coombs Test
13) Entamoeba histolytica
14) Cultivation of Viruses
15) Life cycle of plasmodium vivax in Man

WRITE BRIEFLY ON:5x2=10

- 16) Bacterial Growth curve
17) Oral Thrush
18) Oral lesions in Syphilis
19) Laboratory diagnosis of Salmonella Typhi
20) Draw structure of Immunoglobulin-G (IgG)

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2017

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Classify anemias. Explain the blood and bone marrow picture in iron deficiency anemia. 3+6=9

WRITE SHORT NOTES ON:4x4=16

- 2) Phagocytosis
3) Beri beri
4) Syphilis
5) Chronic venous congestion of liver

WRITE BRIEFLY ON:5x2=10

- 6) Caisson's disease
7) Air embolism
8) Ewing's sarcoma
9) Malignant melanoma
10) Ketone bodies

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Enumerate the etiology of sore throat. Discuss the pathogenesis, laboratory diagnosis and complications of Streptococcal Pharyngitis. 2+2+3+2=9

WRITE SHORT NOTES ON:4x4=16

- 12) Type III Hypersensitivity Reaction
13) Pathogenesis of Candida albicans
14) Viridans Streptococci
15) Laboratory diagnosis of Hepatitis B Virus infection

WRITE BRIEFLY ON:5x2=10

- 16) Pasteurization
17) R - Plasmids
18) Mention four bacteria causing Meningitis
19) Auto Clave
20) Viral Inclusion Bodies

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define thrombosis. Describe the aetiopathogenesis of thrombus formation. Add a note on fate of thrombus. 2+5+2=9

WRITE SHORT NOTES ON:

4x4=16

- 2) Septic shock
3) Hodgkin's lymphoma
4) Basal cell carcinoma
5) Fatty liver.

WRITE BRIEFLY ON:

5x2=10

- 6) Rothera's test
7) Erythrocyte Sedimentation Rate (ESR)
8) Tumor markers
9) Apoptosis
10) Atrophy

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Describe the morphology, pathogenesis, symptoms caused and prophylaxis of infections caused by Cl.tetani. 1+3+2+3=9

WRITE SHORT NOTES ON:

4x4=16

- 12) Actinomycosis
13) Anaphylactic type of hypersensitivity
14) Anaerobic culture methods
15) Passive immunity

WRITE BRIEFLY ON:

5x2=10

- 16) Human immunodeficiency virus
17) Widal test
18) Anti nuclear antibodies (ANA)
19) Mention the opportunistic fungal infections
20) Mention aldehydes group of disinfectants

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2016

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY

(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define edema. Explain the mechanism of edema and mention the causes of renal edema. 1+4+4=9

WRITE SHORT NOTES ON:

- 2) Spleen in Amyloidosis. 4x4=16
 3) Gumma
 4) Laboratory investigations of Iron deficiency anemia
 5) Gross and microscopic picture of osteoclastoma.

WRITE BRIEFLY ON:

- 6) Granulation tissue 5x2=10
 7) Eosinophilia
 8) Ghon's focus
 9) Phagocytosis
 10) List the factors which delay wound healing

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Discuss the laboratory diagnosis and prophylaxis of Diphtheria 9

WRITE SHORT NOTES ON:

- 12) Enzyme Linked Immuno-Sorbent Assay (ELISA) 4x4=16
 13) Prophylaxis of Poliomyelitis
 14) Toxins and Enzymes of Streptococcus pyogenes
 15) Oral Candidiasis

WRITE BRIEFLY ON:

- 16) Herpes Simplex Virus infections 5x2=10
 17) Define Definitive Host with examples
 18) Periapical Abscess
 19) Secretory IgA
 20) BCG Vaccine

DR. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA-520 008

B.D.S. DEGREE EXAMINATION – JUNE/JULY, 2015

SECOND BDS EXAMINATION

GENERAL PATHOLOGY & MICROBIOLOGY*(NR & OR)*

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define neoplasia. Classify oncogenic viruses and explain the role of virus in carcinogenesis. 2+4+3=9

WRITE SHORT NOTES ON:4x4=16

- 2) Primary tuberculosis
3) Infarction
4) Healing of fracture
5) Mechanism of edema

WRITE BRIEFLY ON:5x2=10

- 6) Beta thalassemia major
7) Glycosuria
8) Neurogenic shock
9) Chemotaxis
10) Microscopy of osteoclastoma

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define sterilization. Describe about chemical disinfectants. 2+7=9

WRITE SHORT NOTES ON:4x4=16

- 12) Entamoeba histolytica
13) Louis Pasteur
14) Herpes virus
15) Candidiasis

WRITE BRIEFLY ON:5x2=10

- 16) Transport media
17) Routes of transmission of HIV infection
18) Mention the parasites found in peripheral blood smear
19) Draw a labeled diagram of IgA antibody
20) Alpha hemolytic streptococci

B.D.S. DEGREE EXAMINATION – JANUARY, 2015
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part'A' should not be answered in Part'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define inflammation. Describe the vascular changes. 2+7=9

WRITE SHORT NOTES ON:

4x4=16

- 2) Septic shock
3) Classification of amyloidosis
4) Hemophilia
5) Metastasis

WRITE BRIEFLY ON:

5x2=10

- 6) Osteoclastoma
7) Air embolism
8) Gumma
9) Peripheral smear appearance of iron deficiency anaemia
10) Rhinosporidiosis

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define and classify hypersensitivity. Add a note on type-I hypersensitivity. 2+3+4=9

WRITE SHORT NOTES ON:

4x4=16

- 12) Actinomycosis
13) Auto Clave
14) Bacterial cell wall
15) Laboratory diagnosis of diphtheria

WRITE BRIEFLY ON:

5x2=10

- 16) Name 4 (four) chemical disinfectants
17) Four infections caused by candida
18) Name four anaerobic bacteria
19) Coagulase test
20) Name four tape worms

B.D.S. DEGREE EXAMINATION – JUNE, 2014
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define edema. Explain the mechanism of edema and mention the causes of renal edema. 2+4+3=9

WRITE SHORT NOTES ON:

- 2) Apoptosis 4x4=16
3) The cellular response in acute inflammation
4) Pathogenesis of Type I Diabetes Mellitus
5) Osteoporosis

WRITE BRIEFLY ON:

- 6) Mention four microscopic differences between benign and malignant tumors 5x2=10
7) Granuloma
8) Ghon complex
9) Dystrophic calcification
10) Mention three benign and three malignant tumors of the salivary gland

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Enumerate the causative agents of sore throat. Discuss the pathogenesis, laboratory diagnosis and complications of streptococcal pharyngitis. 2+3+2+2=9

WRITE SHORT NOTES ON:

- 12) Anaphylaxis 4x4=16
13) Acquired immunity
14) Cultivation of viruses
15) Hot air oven

WRITE BRIEFLY ON:

- 16) Oral lesions in syphilis 5x2=10
17) Define intermediate host with examples
18) Bacterial Flagella
19) Postexposure Prophylaxis (PEP) for HIV
20) Microbial flora in Dental Plaque

B.D.S. DEGREE EXAMINATION – JANUARY, 2014
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define thrombosis. Describe its pathogenesis. Add a note on fate of thrombus 2+4+3=9
- WRITE SHORT NOTES ON:** 4x4=16
- 2) Metastatic calcification
- 3) Classification of anaemia
- 4) Chemical carcinogenesis
- 5) Aetiology and morphology of Leukoplakia

WRITE BRIEFLY ON: 5x2=10

- 6) Nutmeg liver
- 7) Mycetoma
- 8) Rickets
- 9) Coagulative necrosis
- 10) Blood picture of chronic myeloid leukemia

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define sterilization. Classify sterilization methods. Describe Autoclave. 2+4+3=9

WRITE SHORT NOTES ON: 4x4=16

- 12) Role of bacteria in dental caries
- 13) Life cycle of E. Histolytica
- 14) IgM antibody
- 15) Actinomycetes

WRITE BRIEFLY ON: 5x2=10

- 16) Mention lesions caused by Herpes simplex virus
- 17) Mention two differences between exotoxin and endotoxin
- 18) Name the parasitic diseases transmitted by mosquito bite
- 19) Gram tube test for candida
- 20) Hepatitis B vaccine

B.D.S. DEGREE EXAMINATION – JUNE, 2013
SECOND BDS EXAMINATION
GENERAL PATHOLOGY & MICROBIOLOGY
(NR & OR)

Time : 3 Hours

Max. Marks : 70

Note: Answer Part A & B in separate answer books. Questions in Part 'A' should not be answered in Part 'B' and vice versa. Otherwise they will not be valued.

Answer all questions.

Draw neat labeled diagrams wherever necessary.

PART-A- PATHOLOGY (35 MARKS)

- 1) Define shock. What are the types of shock? Discuss the mechanism of septic shock? 9
- WRITE SHORT NOTES ON:** 4x4=16
- 2) Leukemoid reaction
- 3) Peripheral blood and bone marrow picture in megaloblastic anaemia
- 4) Ewing's sarcoma
- 5) Pathologic calcification

WRITE BRIEFLY ON:

5x2=10

- 6) Cancrum Oris
- 7) Fate of a thrombus
- 8) Mention stains used for the demonstration of amyloid
- 9) Mention cell derived chemical mediators of acute inflammation
- 10) Dysplasia

PART-B-MICROBIOLOGY(35 MARKS)

- 11) Define and classify hypersensitivity. Write in detail about type-I hypersensitivity. =9

WRITE SHORT NOTES ON:

4x4=16

- 12) Autoclave
- 13) Acute Ulcerative Gingivitis
- 14) Laboratory diagnosis of diphtheria
- 15) Normal flora of human mouth

WRITE BRIEFLY ON:

5x2=10

- 16) Mode of transmission of HIV
- 17) Inclusion bodies
- 18) Define definitive host with example
- 19) Mention 4 antiviral agents
- 20) Two methods of demonstration of motility of bacteria

419/404-SECOND B.D.S. DEGREE EXAMINATION – DECEMBER, 2012

General Pathology & Microbiology-(NR & OR)-Time : 3 Hours-Max. Marks : 70-Answer Part A & B in separate answer books. Questions in Part 'A' -should not be answered in Part 'B' and vice versa.

Otherwise they will not be valued-Answer all questions-Draw neat labeled diagrams wherever necessary.

Part-a- pathology (35 marks)

1..Define metastasis. Describe the various routes of metastasis and add a note on mechanism=1+5+3=9m

2..Write short notes on: 4 x 4 =16m

a).Sickle cell anaemia b) Gangrene c) Basal cell carcinoma d) Lepromatous leprosy

3..Write briefly on: 5 x 2=10m= a).Actinomycosis b).Osteoid osteoma c).Wintrobe tube

d).Stages of phagocytosis e).Histamine.

Part-b-microbiology(35 marks)

4..Classify staphylococci. Describe the lesions caused by s. Aureus and laboratory diagnosis of s. Aureus infection=2+4+3=9m

5..Write short notes on: 4 x 4=16m

a).Hot air oven b) Bacterial growth curve c).Agglutination reaction d) Tuberculin test (mantoux test)

6..Write briefly on: 5 x 2=10m

a).Difference between active and passive immunity

b) Borrelia vincentii

c).Name two complications caused by plasmodium falciparum.

d). Anaerobic culture media.

e).Enumerate the lesions caused by candida albicans.

419/404-SECOND B.D.S. DEGREE EXAMINATION – JUNE, 2012

General Pathology & Microbiology-(NR & OR)-Time : 3 Hours-Max. Marks : 70

PART-A- PATHOLOGY (35 MARKS)

1..Define necrosis. What are the types of necrosis? Enlist the morphological features of different types of necrosis=9m

Write Short Notes On:4 x 4=16m

2..Peripheral blood picture and bone marrow findings in Iron deficiency anaemia.

3..Factors influencing wound healing 4..Etiopathogenesis of Thrombosis 5..Osteoclastoma.

Write Briefly On: 5 x 2=10m

6..Types of infarction 7..Four examples of Granulomatous inflammation

8..Mention Plasma derived chemical mediators of acute inflammation.

9..Mention types of carcinogens with two examples for each.

10..Mention four precancerous lesions of the oral cavity.

PART-B-MICROBIOLOGY(35 MARKS)

11.Write in detail about the Pathogenesis and Laboratory Diagnosis of Syphilis=9m

Write Short Notes On: 4 x 4=16m

12.Coagulase Test 13.Classification of Streptococci 14.IgM immunoglobulin 15.Hypersensitivity

Write Briefly On: 5 x 2=10m

16.Mention four Sexually Transmitted Infections 17.Mention Four Selective Media

18.Write a neat Labelled Diagram of HIV

19.Enumerate Antigen Antibody Reactions

20.Demonstration of Capsule

419/404-SECOND B.D.S. DEGREE EXAMINATION – DECEMBER,2011/JANUARY, 2012

GENERAL PATHOLOGY & MICROBIOLOGY-(NR & OR)-Time : 3 Hrs-Max. Mrks:70

PART-A- PATHOLOGY (35 MARKS)

1..Define Gangrene. What are the types of Gangrene? Write the differences between Dry and Wet gangrene=1+4+4=9m

Write Short Notes On:3 X 4=12m

2..Basal cell carcinoma 3..Megaloblastic anaemia 4..Pathogenesis of oedema 5..Granuloma

Write briefly on:5 x 2=10m

6..List the complications of diabetes mellitus

7..Healing by primary intention

8..Pyogenic osteomyelitis 9..Oral lesions of Syphilis 10.Vitamin A deficiency

PART-B-MICROBIOLOGY(35 MARKS)

11. Define and classify antibodies. Add a note on structure and function of IgG=9m

Write short notes on: 4 x 4 =16.

12..Cell wall of bacteria 13. Tissue culture in virology 14..Pathogenesis of Tetanus

15. Laboratory Diagnosis of Human Immunodeficiency Virus infection

Write briefly on: 5 x 2=10m

16..Four infections caused by staphylococcus

17..Four infections caused by candida

18..Diagram of fertilised egg of ascaris lumbricoides

19. Four markers of hepatitis B virus

20. Four serological tests in syphilis

419/404-SECOND B.D.S. DEG. EXAMINATION – JUNE, 2011-GEN. PATH. & MICRO-(NR & OR)

Time : 3 Hours-Max. Marks : 70-Answer Part A & B in separate answer books. Questions in Part'A'should
PART-A- PATHOLOGY (35 MARKS)

1..Define neoplasia. Write the differences between benign and malignant neoplasms. Enumerate the routes of spread of tumors=9m

Write Short Notes On: 4 X 4 =16m

2..Phagocytosis 3..Leukoplakia-etiology and morphology 4..Fate of thrombus 5..Primary complex

Write Briefly On: 5 X 2 =10m

6..Osteomalacia 7..Factors influencing wound healing 8..Mantoux test 9..Types of infarcts

10.Difference between exudate and transudate

PART-B-MICROBIOLOGY(35 MARKS)

11.Enumerate the organisms causing sore throat. Write in detail about the pathogenesis and laboratory diagnosis of Corynebacterium Diphtheriae=9m

Write Short Notes On: 4 X 4 =16m

12.Flagella 13.Life cycle of E. Histolytica 14.Dental Caries 15.Laboratory Diagnosis of Pulmonary Tuberculosis

Write Briefly On: 5 X 2 =10m

16.Mention four opportunistic infections in HIV 17.Enumerate four non sporing anaerobes

18.Define Antigen 19.Mention four live vaccines 20.Four functions of IgG

419/404-SECOND B.D.S. DEGREE EXAMINATION – DECEMBER, 2010/JANUARY, 2011

PART-A- PATHOLOGY (35 MARKS)

1..Define thrombosis. Describe the etiopathogenesis of thrombus formation. Add a note on fate of a thrombus=9m

Write Short Notes On:

2..Define granuloma and give four examples of granulomatous inflammation

3..Fatty liver-causes and morphology 4..Premalignant lesions 5..Mechanism of wound healing

Write Briefly On: 5 X 2 =10m

6..Types of shocks 7..PCV 8..Clinical features of Vitamin D deficiency 9..Hemophilia

10.Reticulocyte

PART-B-MICROBIOLOGY(35 MARKS)

11.Write a neat labeled diagram of bacterial cell. Add a note on cell wall of bacteria=9m

Write Short Notes On: 4 X 4 =16

12.Life cycle of plasmodium falciparum 13.Laboratory diagnosis of streptococcal pharyngitis

14.Gaseous disinfectants and uses 15.Structure and function of IgM

Write Briefly On: 5 X 2 =10m

16.Four differences between active and passive immunity 17.Name four DNA viruses

18.Name four selective media

19.Four modes of transmission of infection

20.Name four staining techniques in microbiology

419-SECOND B.D.S. DEGREE EXAMINATION – JANUARY, 2010 GENERAL PATHOLOGY &

PART-A- PATHOLOGY (35 MARKS)

1..Define edema. Explain the mechanism of edema and mention the causes of renal edema=9m

Write Short Notes On: 4 X 4 =16m

2.Granuloma 3Thrombocytopenic purpura 4Gross & microscopic picture of osteosarcoma 5..Gas gangrene

Write Briefly On: 5 X 2 =10m =6..Benedicts test 7..Tumour markers 8..Fat embolism

9..Scurvy 10.Metaplasia

PART-B-MICROBIOLOGY(35 MARKS)

11..Discuss the morphology, cultural characters & laboratory diagnosis of Corynebacterium diphtheria=9m

Write Short Notes On: 4 X 4 =16m

12.Acquired Immunity 13.Anaerobic culture methods 14.Life cycle of Plasmodium vivax in man

15.Streptococcus mutans

Write Briefly On: 5 X 2 =10m

16.Candidosis 17.Mention four modes of infection of HIV 18.Louis Pasteur

19.Oral lesions in Syphilis 20.MMR Vaccine

404-SECOND B.D.S. DEGREE EXAMINATION – JANUARY, 2010-GENERAL PATHOLOGY,

PART-A- PATHOLOGY (35 MARKS)

1..Discuss the differences between primary and secondary wound healing. Explain the sequence of events in repair of bone fracture=9m

Write Short Notes On: 4 X 4 =16m

2.Dystrophic calcification 3.Types of oedema 4.Characteristics of malignant tumors 5.Haemophilia

Write Briefly On: 5 X 2 =10m

6..Gumma 7..Nuclear changes in necrosis 8..Diapedesis 9..Microscopy of squamous cell carcinoma

10.Brown atrophy

PART-B-MICROBIOLOGY(35 MARKS)

11.Define and classify immunity. Describe briefly acquired immunity=9m

Write Short Notes On: 4 X 4 =16m,

12.Autoclave 13.Bacterial flagellum 14.Malaria 15.Rabies

Write Briefly On: 5 X 2 =10m

16.Name three sexually transmitted diseases 17.DPT Vaccine 18.Lesions caused by staphylococci

19.Draw structure of immunoglobulin- G (Ig G) 20.Robertson's cooked meat medium (RCM)

419-SECOND B.D.S. DEG. EXAMINATION – JUNE, 2009-GEN. PATHOLOGY & MICRO-N.R.)

PART-A- PATHOLOGY (35 MARKS)

1..Define and classify anemias. Write the blood and bone marrow picture of megaloblastic anemia=9m

Write Short Notes On: 4 X 4 =16m

2..Gross and microscopic picture of basal cell carcinoma 3.Pyogenic Osteomyelitis

4..Differences between benign and malignant tumour 5.Chemical mediators of inflammation

Write Briefly On: 5 X 2 =10m

6.Caseation necrosis 7.Oncogene 8.Leukoplakia 9.Atheroma 10.Types of Hodgkin's lymphoma

PART-B-MICROBIOLOGY(35 MARKS)

11.Enumerate the causative agents of sore throat. Discuss the pathogenesis, laboratory diagnosis and complications of Steptococcal pharyngitis=9m

Write Short Notes On: 4 X 4 =16m

12.Entamoeba histolytica 13.Bacterial drug resistance 14.Chemical sterilizing agents 15.Anaphylaxis

Write Briefly On: 5 X 2 =10m

16.Vincent's angina 17.Nagler's reaction 18.Bacterial growth curve 19.Moniliasis 20.Widal Test

404-SECOND B.D.S. DEGREE EXAMINATION – FEBRUARY, 2009-GENERAL PATHOLOGY,

PART – A (GENERAL PATHOLOGY)

1..Define Neoplasia. Give the differences between Benign and Malignant tumours=9m

Write Short Notes On:= 4x4=16m

2..Iron deficiency anemia. 3. Infarct. 4. Congenital syphilis 5. Pellagra

Write Briefly=5x2=6..Metastatic calcification. 7. E.S.R 8. Giant cell 9. Anasarca 10.Necrosis.

PART – B (PARASITOLOGY & MICROBIOLOGY)

11.Define sterilization. Classify sterilization and write about chemical methods of sterilization=9m

Write Short Notes On=4x4=16m

12.Widal Test. 13.Coagulase Test. 14.Prophylaxis of Tetanus. 15. Coombs Test.

Write Briefly On: 5x2=10

16. Write about opportunistic fungi causing infection. 17. Mention four bacteria causing Meningitis.

18. Two important methods for diagnosing AIDS infection.

19. Tell about four species of parasites producing malarial fever.

20. Tell about two important methods tried for isolating mycobacterium Leprae.

404-SECOND B.D.S. DEG. EXAMINATION – JUNE, 2009-GENERAL PATHOLOGY, PARASITOLOGY & MICROBIOLOGY-(Old Regulations)

PART-A- PATHOLOGY (35 MARKS)

1..Define neoplasia and write in detail the spread of malignancy=9m

Write Short Notes On: 4 X 4 =16m

2.Actinomycosis 3.Irreversible cell injury 4.Shock 5.Neoangiogenesis

Write Briefly On: 5 X 2 =10m

6.Apoptosis 7.Difference between transudate and exudates 8.Granuloma 9.Gangrene

10.Pleomorphism

PART-B-MICROBIOLOGY(35 MARKS)

11.Classify streptococci. Describe the morphology, cultural characteristics, pathogenicity and lab diagnosis of streptococcus pyogenes=9m

Write Short Notes On: 4 X 4 =16m

12.Hot Air Oven 13.Antimicrobial susceptibility testing 14.Vaccines 15.Hepatitis B. virus

Write Briefly On: 5 X 2 =10m

16.Oral Thrush 17.Microfilaria 18.Draw various morphological forms of entamoeba histolytica

19.Rhinosporidiosis 20.Enumerate four oral pathogenic bacteria

404-SECOND B.D.S. DEGREE EXAMINATION – JULY, 2008-GENERAL PATHOLOGY, PARASITOLOGY & MICROBIOLOGY

PART – A (GENERAL PATHOLOGY)

1..Define inflammation. Mention the cardinal signs & discuss the vascular events of acute inflammation=9m

Write short notes on=4x4=2..Characteristics of benign tumors 3..Characteristics of dry and wet gangrene

4..Idiopathic thrombocytopenic purpura(ITP) 5..Osteosarcoma

Write briefly on: 5 x 2=6.Chemotaxis 7.Microscopy of lepromatous leprosy 8.Hyaline degeneration

9.Metastatic calcification 10. Blood picture in acute myeloid leukaemia

PART – B (PARASITOLOGY & MICROBIOLOGY)

11. Classify staphylococcus. Describe the morphology, cultural characters, pathogenicity, Toxins and other virulence factors of staphylococcus aureus=9m

Write short notes on:= 4x4=12. Hydatid cyst__ 13. Lesions of candida albicans

14. Lab diagnosis of Hepatitis-B infection ____ 15. Autoclave

Write briefly on:= 5x2=10m

16. Mention two important Non-suppurative complications of post streptococcal pyogenic infection.

17. Write four differences between Exotoxin and Endotoxin.
18. Name four groups of E-coli causing diarrheal diseases more common in infants.
19. Mention four important bacteria causing urinary tract infection and also write what is significant bacteriuria
20. Mention three important actinomycetic lesions in man.

404-Second B.D.S. Degree Exam. – March, 2008-General Pathology , Parasitology & Microbiology-

PART – A (GENERAL PATHOLOGY)

1. Define and classify anemia. Discuss the etiopathogenesis & laboratory diagnosis of iron deficiency anemia=9m

Write Short=4x4=2. Morphology of tubercle 3. Fate of thrombus 4. Metaplasia 5. Basal cell carcinoma

Write Briefly=5x2=6. Stages of phagocytosis 7. Skeletal lesions of Rickets 8. Dystrophic calcification

9. Microscopy of Rhinosporidiosis 10. Cardinal signs of acute inflammation

PART – B (PARASITOLOGY & MICROBIOLOGY)

1. Classify spirochetes. Describe the morphology, cultural characters pathogenicity of Treponema Pallidum. Write about the standard Tests done for syphilis=9m

Write Short Notes On:= 4x4=16

2. Cell wall of the bacteria 3) IgM. Immunoglobulin 4) Microfilaria 5) Virus culture of Egg

Write Brief Answers On: =5x2=6. Mention two important live viral vaccines.

7. Mention two important Media for culturing fungi

8. Write two important organisms causing Nosocomial infection

9. Quick method of diagnosing Cryptococcus Neoformans 10. Mention two oral fungal infections

404-NR-B.D.S. DEGREE EXAMINATION –OCTOBER, 2007-SECOND BDS EXAMINATION

Part-a (General Pathology)

1. Write briefly on primary and secondary healing process =9m

Write short notes on: 4 x 4 =16m; 2. Pernicious anemia 3. Difference between benign and malignant tumour

4. Emboli 5. Chronic inflammation Amyloid

Write briefly on: 5 x 2 =10m; 6. Granulation tissue 7. Hyperplasia 8. Keloid scar 9. Opsonization 10. Ulcer

Part-B (Parasitology & Microbiology)

11. Describe the life cycle of Ankylostoma duodenale. Write a note on pathogenecity and Laboratory diagnosis of

Ankylostomiasis=9m

Write short notes on: 4 x 4=16m; 12. Immunoprophylaxis in tetanus 13. Acute ulcerative gingivitis

14. Flagella 15. Rhinosporidium

Write briefly on: 5 x 2=10m; 16. Name Agglutination tests used for diagnosis 17. Name capsulated bacteria

18. Name Micro organisms causing periapical abscess 19. Name three general characters of viruses

20. Mention the Micro organisms causing Meningitis

APRIL, 2007 -PART – A (GENERAL PATHOLOGY)

1. Define Necrosis. Discuss the aetiopathogenesis and morphology of various types of necrosis.=9m
2. Write short: 4x4=a) Classification of Tumors b) Chronic osteomyelitis c) Haemophilia d) Types of oedema
3. Write briefly on: 5x2=a) Cancrum oris b) Infectious mononucleosis c) Aplastic Anaemia d) Anaplasia e) Basal cell carcinoma

PART – B(PARASITOLOGY & MICROBIOLOGY)

1. Define and classify sterilization. Write briefly on Moist heat of sterilization.=9m

2. Write short notes on: 4x4=16=a) Z.N. Stain b) Actinomycosis

c) Delayed Hypersensitivity d) Normal flora of the Human mouth

3. Write briefly on: 5x2=10=a) Mention three differences between Exotoxin and Endotoxin
- b) Name three opportunistic fungi c) Name three gram positive bacilli
- d) Name three lesions produced by Herpes Simplex e) Name three sexually transmitted diseases

SEPT, 2006

Part-A

1. Define and classify anaemias. Describe the peripheral blood picture of iron deficiency anaemia=9m
2. Write short notes on: 4 x 4 =16m; a) Metastatic calcification b) Special stains for demonstrating Amyloid
c) Pleomorphic Adenoma d) Anaphylactic shock
3. Write briefly on: 5 x 2 =10m; a) Cystic Hygroma b) Fate of thrombus c) Eosinophilia
d) Metaplasia e) Causes of prolonged bleeding time

Part-B (Parasitology and Microbiology)

4. Describe the morphology, cultural characters and pathogenecity of mycobacterium tuberculosis. Add a note on laboratory diagnosis of pulmonary tuberculosis=9m
5. Write sht : 4 x 4 =1a)Active immunity b)Immunoprophylaxis in poliomyelitis c)Autoclave d)Candida albicans
6. Write briefly on: 5 x 2 =10m; a) Define Septicaemia and bacteraemia
b) Mention 3 differences between Streptococcal Viridans and Pneumococci c) Name 3 RNA viruses
d) Name 3 selective Media and their uses e) Name the Micro organisms causing dental caries

APRIL, 2006

Part-A (General Pathology)

1. Define Neoplasia. Classify tumours. Discuss the modes of spread of malignant tumours=9m
2. Write short notes on: 4 x 4 =16marks; a) Factors influencing wound healing b) Actinomycosis
c) Types of shock d) Pernicious Anaemia
3. Write briefly on: 5 x 2 =10marks; a) Oral lesions in congenital syphilis b) Causes of Neutrophilic leucocytosis
c) Angioedema d) Thrombocytopenia e) Lab diagnosis of enteric fever

Part-B (Parasitology & Microbiology)

4. Draw a neat diagram of bacterial cell. Add a note on bacterial cell wall=9m
5. Write short notes on: 4 x 4 =16marks; a) Amoebic dysentery b) Dental caries
c) Mechanisms of innate immunity in an individual d) Ziehl-Neelsen stain
6. Write briefly on: 5 x 2 =10marks; a) Principle of autoclave b) Prophylaxis against Hepatitis B
c) Laboratory diagnosis of Malaria d) Prophylaxis of tetanus e) Different morphological forms of bacteria

OCT-NOV-2005

Part-A

1. Define thrombosis. Discuss the etiopathogenesis and complications of thrombus. =9m
2. Write short notes on; 4 x 4 =16m; a) Phagocytosis b) Sequential stages in wound healing by first intention
c) Fat embolism d) Osteoclastoma
3. Write briefly on: 5 x 2 =10marks; a) Tripe response of lewis b) Classical haemophilia
c) Characteristics of dry gangrene d) Microscopy of amenoblastoma e) Microscopy of Tubercle

Part-B

4. Describe the morphology, clinical characters and laboratory diagnosis of diphtheria =9m
5. Write short notes on; 4 x 4 =16marks; a) Bacterial growth curve b) Autoclave c) Hepatitis B virus
d) Human cycle of malarial parasite.
6. Write briefly on: 5 x 2 =10marks; a) Name two enriched media and two transport media
b) Mention four modes of infection of HIV c) Name four diseases caused by streptococcus pyogenes

d) Name four vaccines

e) Importance of Grams stain

MAR/APR.2005 (N.R.)

Part-A

1. Explain the characteristics of benign and malignant tumours =9marks
2. Write short notes on: 4 x 4 =16marks; a) Morphology of Granuloma b) Squamous cell carcinoma
c) Blood picture in Megaloblastic anaemia d) Osteosarcoma
3. Write briefly on: 5 x 2 =10marks; a) Cancrum oris b) Types of exudate with examples
c) Microscopy of fatty liver d) Lab diagnosis of ITP e) Basal cell carcinoma

Part-B

4. Define sterilization and disinfection. Add a note on moist heat sterilization =9marks
5. Write short notes on: 4 x 4 =16marks; a) Bacterial spore b) Oral Thrush c) Vincent's Angina
d) Differences between Active and Passive immunity
6. Write briefly on: 5 x 2 =10marks; a) Name the species of malarial parasites infecting humans
b) Name two sexually transmitted bacterial diseases c) Name four different classes of disinfectants
- d) Name four diseases caused by Staphylococcus aureus
- e) Name two media used by cultivation of corynebacterium diphtheria

OCTOBER, 2004(N.R.)

Part-A (General Pathology)

1. Define and classify Degeneration. Discuss the etiopathogenesis and pathology of Fatty Liver =9marks
2. Write short answers on: 4 x 4 =16marks; a) Pathological calcification
b) Pleomorphic Adenoma of Salivary gland c) Pyogenic osteomyelitis
d) Blood picture in chronic myeloid leukaemia
3. Write briefly on: 5 x 2 =10marks; a) Types of necrosis with examples b) Microscopy of Sago spleen
c) Wear and Tear pigment d) Chemotaxis e) Leukoplakia of mouth

Part-B (Parasitology and Microbiology)

4. Describe the morphology, cultural characters, and corynaebacterium diphtheriae =9marks
5. Write short notes on: 4 x 4 =16marks; a) Mention two oral fungal falciparum
b) Complications of plasmodium falciparum c) Mention four bacteria causing respiratory infection
d) Draw a diagram of Spore and Label e) Mention four Bacteria causing meningitis.

APRIL/MAY, 2004. (N.R.)

Part-A (General Pathology)

1. Define inflammation. Discuss cellular events in Acute inflammation =9marks
2. Write short answers on: 4 x 4 =16marks; a) Granuloma b) Healing by second intension c) Dystrophic calcification d) Congenital syphilis.
3. Write briefly on: 5 x 2 =10marks; a) Types of Oedema b) Nutmeg liver c) Blood picture in Iron deficiency Anaemia
d) Name the pathways of spread of Malignant tumours d) Thrombocytopenia.

Part-B (Parastiology and Microbiology)

4. Describe the morphology and life cycle of Entamoeba histolytica. Write about laboratory diagnosis of intestinal amoebiasis. 9marks;
5. Write short answers on: 4 x 4 =16m. a) Different methods of Sterilization b) Modes of transmission of HIV
c) Flagella d) Koplik's spots.
6. Write briefly on: 5 x 2 =a) Types of active immunity with examples b) Different types of spores

- c) Non suppurative lesions, caused by streptococcus pyogenes
 e) Mention four selective media

d) Ziehl-Neelsen stain

OCTOBER, 2003. (N.R.)

APRIL, 2003. (N.R.)

Answer Part-A and B in **separate** answer books - Draw diagrams wherever necessary

Part-A (General Pathology)

1. Define Neoplasia. Give the differences between Benign and Malignant tumours =9marks
2. Write short notes on: 4 x 4 =16marks
 - a) Metastatic calcification
 - b) Fate of thrombus
 - c) Actinomycosis
 - d) E.S.R.
3. Write brief answers on: 5 x 2 =10marks
 - a) Hypertrophy-define and give examples
 - b) Red infarct – How is it caused? How many types of infarcts are there?
 - c) Microscopic picture of osteosarcoma
 - d) What is Leucocytosis? What are the causes.
 - e) What is Fatty liver? What are the causes

Part-B (Parastiology including Microbiology)

4. Define Sterilisation. Classify sterilization methods and write about physical methods of sterilization=9marks
5. Write short notes on: 4 x 4 =16marks
 - a) Structure of immunoglobulin
 - b) Serum sickness
 - c) Hydatid cyst
 - d) Malignant pustule
6. Write briefly on the following: 5 x 2=a) Exotoxin b)Castanedo's method of culture
 - c) Kopic sports or bacteria in oral cavity
 - d) Diagram of aids virus
 - e) Inclusion bodies

OCTOBER, 2002

Part-A (General Pathology)

1. Define Granuloma- What are the causes and pathology of Granuloma =9marks
2. Write short answer: 4 x 4 =a) Basal cell carcinoma b) Phagocytosis c) Fat embolism d) Gangrene
3. Write briefly on: 5 x 2 =10marks
 - a) Candidiasis – What is it ? What are the causes
 - b) Microscopic picture of Osteoclastoma
 - c) Blood picture of chronic myeloid Leukemia
 - d) Metaplasia - What is it? Give examples
 - e) Define teratoma

Part-B (Parasitology includisng Microbiology)

4. Define and classify Immunity. Discuss Acquired Immunity. =9marks
5. Write short answers on: 4 x 4 =a) Microfilaria b) Dental caries c) Capsule d) Blood agar
6. Write briefly: 5x2=a) Lesions caused by Staphylococcus aureus. b) Mention 3 enriched media and their uses
 - c) Growth curve
 - d) Gram Stain
 - e) Uses of Hot Air Oven

SECOND B.D.S. APRIL, 2000 – General pathology, Parasitology & Microbiology

Part-A (General Pathology)

1. Describe briefly serological diagnosis of syphilis =10marks
2. Short notes: a) Structure of Immunoglobulin b) Fungus affecting the hair c) Immunization of Rabies
 - d) Lab-diagnosis of corynebacterium Diphtheria in brief
 - e) Actinomycosis
 - f) Rhino sporidium=6x5=30

Part-B (Parasitology & Microbiology)

1. Describe the morphology, spread, prevention and lab diagnosis of Hepatitis B Virus =10marks
2. Short Notes: a) Widal Test b) Elisa c) Acquired active immunity d) Standard tests for syphilis
 - e) Name the Immunoglobulins and write above IgA
 - f) Microfilaria =6x5=30marks

APRIL, 1999.

Part-A

1. Define thrombosis. Discuss in brief the pathogenesis of thrombus for motion =10marks
2. Write short notes on: 6x5=a) Actinomycosis b) Dental caries c) Phagocytosis d) Spread of tumour

- e) Blood picture of iron deficiency anaemia f) Cell mediated immunity

Part-B

3. Describe the morphology of bacterial cell with diagram briefly =10marks
4. Write short notes on: 6x5= a) Polio vaccines b) Sources of infection c) Entamoeba Gingivalis
d)V.D.R.L.Test e)Morphology diagnosis and diseases caused by candida albicans f)Prophylaxis of Tetanus.

OCTOBER, 1998.

Part-A

1. Define sterilization. Describe an auto-clave =10marks
2. Short Notes: a) Dental caries b) Immunoglobulin A c) Cultivation of Viruses
d) Immunization of Tatanus e) Lab diagnosis of entamoeba histolytica in brief
f) Cysticercus cellulosae =6x5=30marks

Part-B

3. Describe healing of a fracture. Enumerate the causes for nonhealing of a fracture =10marks
4. Short: a)Pancytopenia b)Scurvy c)Epulis d)Pleomorphic adenoma e)Caseons necrosis f) Atrophy=6x5

APRIL, 1998.

Part-A (General Pathology)

1. Define Inflammation. What are the cardinal signs of inflammation. Describe the vascular changes in inflammation=10
2. Short Notes: a) Spread of tumors b) Bleeding time c) Cell mediated immunity d) Primary complex
e) Burkitts Lymphoma f) Embolism =6x5=30marks

Part-B (Parasitology including Microbiology)

3. Mention the infection transmitted by blood and blood products and write in detail about any one agent =10
4. Short Notes: a) Enriched Media b) Cultural methods of Candida Albicans c) Congenital syphilis
d) Structure of Immunoglobulin e) Morphology of Entamoeba Gingivalis f) Cultivation of Virus =6x5

OCTOBER, 1997.

Part-A

1. Describe the morphology cultural characters and lab diagnosis of corny bacterium diphtheria –10marks
2. Short notes: a) Vincents Angine b) Hot Air oven c) Morphology and cultural characters of penumococci
d) Lock Jaw e) Immunization of Polio Myditis =5x5=25marks

Part-B

3. Discuss the aetiopathogenesis of nutritional oedema =10marks
4 Short Notes: a) Gangrene b) Dystiophic calcification c) Basal cell carcinoma d) Ameloblastoma
e)Hemophilia f) Varieties of Inflammation –6x5=30marks

APRIL, 1997. Time: 3hrs Marks: 75

Part-A

1. Describe morphology, cultural characters and laboratory diagnosis of corny bacterium diphtheria =10marks
2. Short Notes: a) Human Papilloma Virus b) Life cycle of Ancylostoma duodenal c) Stool examination
d) Sterilization e) Cysticercus cellulosae =5x5=25marks

Part-B

3. Discuss the aetiopathogenesis of odema =10marks
4. Short Notes: a) Fat necrosis b) Basal cell carcinoma c) Leukoplakia d) Pancytopenia
e) Pleomorphic Adenoma f) Granuloma =6x5=30marks

OCTOBER, 1996.

Part-A

1. Describe morphology, cultural characters and laboratory diagnosis of pneumococcus. Give a brief account of bronchopneumonia =10marks
2. Write short notes on: 6x5=a) Life cycle of entamoeba histolytica b) Pneumocystis carinii c) Occult blood

d) Serologic diagnosis of syphilis

e) Type-II Hypersensitivity reactions.

Part-B

3. Define sterilization and write about sterilization by moist heat =10marks

4. Write short notes on: 6x5=30m-a) Write briefly about capsule and give 2 examples of capsulated organisms.

a) Immunoglobulin-A

c) Streptococcus viridans and dental caries

d) Importance of Hepatiti-B in dental surgery

e) Oral Thrush

APRIL, 1996. Time-3hrs Marks:75

Part-A

1. Describe morphology, cultural characters and laboratory diagnosis of enteric fever =10marks

2. Short Notes- a)Cytomegalo Virus b)Life cycle of Ascaris Lumbricoides c)Black water fever

d)Mumps e) Mycetoma

Part-B

1. Define infarction. Describe the pathology of Infarct. 10marks

2. Short Notes: a) Gumma b) Vitamin A deficiency c) Spread of tumors d) Erythrocyte sedimentation rate

e) Bone-marrow in megaloblastic anaemia

f) Dentigerous cyst =6x5=30marks

OCTOBER, 1995.

Part-A

1. Discuss the a etiology, pathogenesis and laboratory diagnosis of malaria =10marks

2. Short Notes: a) Primary complex in lung b) Sterilization by autoclave c) Larval forms of cestodes

d) Normal flora of mouth

e) Examination of stool in amoebic dysentery =5x5=25marks

Part-B

3. Classify tumors and discuss the differences between benign and malignant tumors =10marks

4. Short Notes: a) Necrosis b) Bronzed diabetes c) Heart failure cells d) Lymphokines

e) Granulation tissue

` Packed cell volume =6x5=30marks