

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – 01-Mar-2023

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY (RS-2, RS-3, RS-4 & RS-5)

Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify anaesthetics. Write the action and adverse effects of any one general anesthetic.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Name two broad spectrum antibiotics. Write their uses and contraindications.
3. Classify anti anginal drugs. Explain the actions and side effects of Nitroglycerine.
4. What are the pharmacological effects and side effects of anabolic steroids?
5. Enlist the sources of Unani Medicines with examples.

SHORT ANSWERS

4 x 2 = 08 Marks

6. List the principles of drug administration.
7. Name two each of the disinfectant Alcohols and oxidizing agents
8. List the types of Bronchodilators.
9. List any four mineral preparations.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – 26-May-2022

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY
(RS-2, RS-3, RS-4 & RS-5)
Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1. Classify analgesics. Explain the action and side-effects of Aspirin.

1 x 10 = 10 Marks

SHORT ESSAYS

2. Explain the types of Penicillins and their actions.
3. What are the Hematinics? Mention two Iron preparations and list their toxic effects.
4. Classify Insulins. Write the mechanism of action of Insulin.
5. What are the principles of Homeopathy? List any three Homeopathic medicines.

4 x 5 = 20 Marks

SHORT ANSWERS

6. List four drugs prepared from Plant sources.
7. Name any four disinfectants.
8. List four antihistaminic drugs.
9. What is the action of Disulfiram?

4 x 2 = 08 Marks

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – 29-Nov-2021

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY (RS-2, RS-3, RS-4 & RS-5) Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both OP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify tranquilizers. What are the pharmacological actions and side effects of Monoamine Oxidase Inhibitor?

SHORT ESSAYS

4 x 5 = 20 Marks

2. List the types of antibiotics. Explain the advantages, disadvantages and adverse reactions of Sulphonamides.
3. Write the indications and side effects of Vitamin K.
4. What are the regulators of Calcium in the body? Name any two calcium preparations with side effects.
5. Name the Alternative systems of medicines. Explain the branches of Ayurvedic Medicine.

SHORT ANSWERS

4 x 2 = 08 Marks

6. Enlist the adverse conditions that lead to poor absorption of drug from gut.
7. Name any two anti-motility drugs and mention two side effects of any one.
8. Write the Indication and any two side effects of Antidiuretic Hormone.
9. List two skin protective agents. Write the action of any one.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – 03-Aug-2021

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY
(RS-2, RS-3 & RS-4)

Q.P. Code: 1762

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer All Questions.

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify analgesics. Write the actions and side effects of any one non-steroidal anti inflammatory agent.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Explain the pharmacological actions and toxic effects of Digitalis.
3. Name two steroid preparations. Write the side effects of steroid administration.
4. Name the Alternative systems of medicines. Explain the branches of Ayurvedic Medicine.
5. List the types of Cephalosporins. Write their actions and side effects.

SHORT ANSWERS

4 x 2 = 08 Marks

6. Enlist four drugs prepared from animal sources.
7. Name two each of the disinfectant Acids and Halogens.
8. Name two Antitussives and two Mucolytics.
9. List any four vitamin preparations.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – 27-Nov-2020

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY (RS-4)

Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify the CNS stimulants. Write the action and side effects of any one.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Name any two anti amoebic drugs. Write the pharmacological name, mode of action, and contraindication for Metrogyl.
3. List four anticoagulants. Explain the side effects of anti-coagulants.
4. Classify Insulins. Write the mechanism of action of Insulin.
5. Enlist the sources of Unani Medicines with examples.

SHORT ANSWERS

4 x 2 = 08 Marks

6. Make a list of extrapyramidal symptoms.
7. List two actions and two side effects of Potassium.
8. Name any urinary antiseptic with its two side effects.
9. What are the mydriatics? Write the side effects of atropine.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – 10-Sep-2020

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY (RS2, RS3 & RS4) Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note: Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. What are the Hypnotics? Write the Therapeutic uses and Adverse effects of Barbiturates.

SHORT ESSAYS

4 x 5 = 20 Marks

2. List the antitubercular antibiotics. Write the mode of action and side effects of any one.
3. Classify antihypertensive drugs. Write the actions and adverse effects of Propranolol.
4. Name two uterine stimulants. Explain the uses and adverse effects of any one.
5. Enlist three humors required for normal equilibrium of health as per Siddha Medicine?

SHORT ANSWERS

4 x 2 = 08 Marks

6. Enlist the various mechanisms of drug action in body.
7. Name two of each of the insecticides and antiseptics.
8. Name any one broncho-constrictor and two of its side effects.
9. Write the actions of Calcium.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – APRIL-2019

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology

Q.P. Code: 1762

(RS2 Batch 2007-2008) & (RS3 & RS4 Batch 2008-2009 Onwards)

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note: Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Enumerate general anaesthetics. Write the pharmacological actions, uses and adverse effects of halothane.
2. Classify the drugs used in tuberculosis. Mention the therapeutic uses and adverse effects of streptomycin.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Potassium sparing diuretics
4. Bronchodilators
5. Uses of beta-blockers
6. Tetracyclines
7. Chlorpromazine

SHORT ANSWERS

4 x 2 = 08 Marks

8. Mention one therapeutic use (clinical condition) & one important adverse effect of Atorvastatin.
9. Mention one therapeutic use (clinical condition) & one important adverse effect of sodium valproate.
10. Mention one therapeutic use (clinical condition) & one important adverse effect of metronidazole.
11. Mention one therapeutic use (clinical condition) & one important adverse effect of heparin.

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – OCT-2019

Time: Three Hours

Max. Marks: 38 Marks

PHARMACOLOGY
(RS2, RS3 & RS4)
Q.P. Code: 1762

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. What is a tranquilizer? Classify tranquilizers, What are the pharmacological actions of tranquilizers?

SHORT ESSAYS

4 x 5 = 20 Marks

2. Enlist the Amino -glycosides. Write the action and adverse effects of Gentamycin.
3. Explain the indication and side effects of vasodilators.
4. Write the uses and adverse effects of Uterine relaxants.
5. What are the principles of Homeopathy? List any three Homeopathic medicines.

SHORT ANSWERS

4 x 2 = 08 Marks

6. List the factors affecting drug action.
7. Name any two of each of the anti emetics and anti-diarrhoeals.
8. List any four diuretics.
9. List four topical agents used on the skin.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination -APRIL-2018

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology Q.P. Code : 1762

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify penicillins. Describe the mechanism of action, uses and adverse effects of amoxicillin.
2. Enumerate corticosteroids. Describe the uses, adverse effects and contraindications of prednisolone.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Sublingual route of drug administration
4. Loop diuretics
5. Preanaesthetic medication
6. Metronidazole
7. Lignocaine

SHORT ANSWERS

4 x 2 = 08 Marks

8. Amikacin
9. Methotrexate
10. Heparin
11. Atropine

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – SEP-2018

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology**Q.P. Code: 1762**

(RS2 Batch 2007-2008) & (RS3 & RS4 Batch 2008-2009 Onwards)

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note: Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)**1 x 10 = 10 Marks**

1. Enumerate the routes of drug administration with examples. Mention the advantages and disadvantages of oral route of drug administration.
2. Enumerate the Insulin preparation briefly explain the advance effects and uses of Insulin

SHORT ESSAYS (Answer any four)**4 x 5 = 20 Marks**

3. Dopamine
4. Phenytoin sodium
5. Ciprofloxacin ✓
6. Wartarin
7. Parenteral iron preparation

SHORT ANSWERS**4 x 2 = 08 Marks**

8. Baclofen
9. Propranolol
10. Ampicillin
11. Lisin

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – APRIL 2017

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology **Q.P. Code : 1762**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Outline the General Principles of management of Acute Poisoning and enumerate the steps in Organophosphorus poisoning management.
2. Classify ANTICHOLINERGIC (Atropinic) drugs. Discuss the therapeutic uses and adverse effects of Atropine and its substitutes.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Metronidazole.
4. Therapeutic uses and adverse effects of ANTIHISTAMINICS.
5. Bronchodilators.
6. Therapeutic uses of GLUCOCORTICOIDS.
7. 3rd generation Cephalosporins.

SHORT ANSWERS

4 x 2 = 08 Marks

8. Name four ANTHELMINTICS.
9. Name four ANTIEPILEPTICS.
10. Mention two oral and two Parenteral Iron preparations.
11. Name four Antihypertensives each belonging to a different group.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – SEP-2017

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology **Q.P. Code : 1762**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Enumerate various routes of drug administration with suitable examples. Discuss the merits and demerits of INTRAVENOUS route.
2. Classify OPIOID ANALGESICS. Discuss the therapeutic uses, adverse effects and contraindications of MORPHINE.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Name four anticholinesterases and its therapeutic uses.
4. Pre anaesthetic medication.
5. Uses and adverse effects of INSULIN.
6. Antiemetics.
7. Anticoagulants.

SHORT ANSWERS

4 x 2 = 08 Marks

Mention one therapeutic use (clinical condition) & one important adverse effect of the following.

8. Define an "ANTISEPTIC"; Give two examples.
9. Name four RESERVE antitubercular drugs.
10. Name four Viral Vaccines.
11. Name four drugs useful in Hypertensive Emergencies.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – SEP 2016

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology **Q.P. Code : 1762**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

(Use separate answer books for QP 1762 & QP 1763)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify oral antidiabetic drugs. Discuss the mechanism of action and adverse effects of sulfonyl-urea compounds.
2. Classify antihypertensive agents. Write the pharmacology of angiotensin converting enzyme inhibitors.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Pethidine
4. Metronidazole
5. Intravenous route of administration
6. Classify antiseptics with suitable examples.
7. Antacids

SHORT ANSWERS

4 x 2 = 08 Marks

8. List four tetracyclines and their uses
9. Advantages of amoxicillin over ampicillin
10. Short term regimen for tuberculosis
11. List four uses of adrenaline.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – **MAY 2016**

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology **Q.P. Code : 1762**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

(Use separate answer books for QP 1762 & QP 1763)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Mention the different routes of drug administration with suitable examples. Write the advantages and disadvantages of intravenous route.
2. Classify various local anaesthetic drugs. Write briefly about the pharmacology of lignocaine.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Uses and adverse effects of adrenaline
4. Radioactive iodine
5. Pethidine
6. Nitrates
7. Succinyl choline

SHORT ANSWERS

4 x 2 = 08 Marks

8. Mention one therapeutic use (clinical condition) & one important adverse effect of streptomycin.
9. Mention one therapeutic use (clinical condition) & one important adverse effect of metoclopramide.
10. Mention one therapeutic use (clinical condition) & one important adverse effect of salbutamol.
11. Mention one therapeutic use (clinical condition) & one important adverse effect of ramipril.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – October 2015

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology **Q.P. Code : 1762**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify antiepileptic agents. Mention the pharmacological actions, adverse effects & uses of sodium valproate
2. Enumerate tetracycline preparations. Mention the mechanism of action, ^{antimicrobial} antimicrobial spectrum, adverse effects & uses of Doxy cycline

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Zero order kinetics & first order kinetics
4. Prazosin
5. Ketamine
6. Cough suppressants
7. Prepare 500 ml of 5 % DNS solution. Mention its uses

SHORT ANSWERS

4 x 2 = 08 Marks

Mention one therapeutic use (clinical condition) & one important adverse effect of the following

8. Aspirin
9. Atenolol
10. Chloroquine
11. Amlodipine

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – September 2014

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology
Q.P. Code : 1762

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both OP Codes 1762 and 1763 are to be answered within total duration of 3 hours)
(Use separate answer books for QP 1762 & QP 1763)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify anti-anginal drugs. Describe the mechanism of action, uses & adverse effects of nitrates.
2. Classify anti-muscarinic drugs, mechanism, adverse effects & uses of atropine.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Morphine
4. Drugs used in anaemia
5. Sodium valproate
6. Drugs used in hook worm infestations
7. Prazocin

SHORT ANSWERS

4 x 2 = 08 Marks

8. Mention one use & one important adverse effect of gentamicin.
9. Mention one use & one important adverse effect of indomethacin.
10. Mention one use & one important adverse effect of inhalational steroids.
11. Mention one use & one important adverse effect of ciprofloxacin.

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination - Aug 2013

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology Q.P. Code : 1762

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)
(Use separate answer books for QP 1762 & QP 1763)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify anticholinergic drugs. Write the pharmacological actions, adverse effects & uses of atropine.
2. Enumerate penicillins & discuss the pharmacology of Benzyl penicillin.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Drug antagonism
4. Aminoglycosides
5. Sublingual route of administration
6. Angiotensin converting enzyme inhibitors
7. Bronchodilators

SHORT ANSWERS

4 x 2 = 08 Marks

8. List two fluoroquinolones and their uses.
9. List two anthelmintics and their indications.
10. Name four antihistamines & their adverse effects.
11. Vitamin A

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Nursing Degree Examination – Mar 2013

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology Q.P. Code : 1762

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify anticholinergic agents. Mention the adverse effects and uses of ATROPINE
2. Mention the drugs used in the management of angina pectoris. Mention the adverse effects & uses of nitrates

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Pancuronium- Dapsone
4. ~~CMV~~ heparin
5. Salbutamol
6. Rifampicin
7. Pethidine

SHORT ANSWERS

4 x 2 = 08 Marks

Mention one therapeutic use (clinical condition) & one important adverse effect of the following

8. Tetracycline
9. Insulin
10. Adrenaline
11. Captopril

1762_2012_2_S186

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination – Sep 2012

Time: 3 Hours

Max. Marks: 38 Marks

Pharmacology
Q.P. Code : 1762

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both OP Codes 1762 and 1763 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Classify skeletal muscle relaxants. Write the mechanism of action, uses and adverse effects of succinyl choline.
2. Classify corticosteroids. Describe their pharmacological actions, adverse effects and therapeutic uses.

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Preanesthetic medication
4. Bioavailability
5. Phenytoin sodium
6. 3rd generation Cephalosporins
7. Therapeutic uses of Ethanol

SHORT ANSWERS

4 x 2 = 08 Marks

8. Mention two aminoglycoside antibiotics and two common properties
9. Pharmacological basis of dopamine in cardiogenic shock
10. Mention two antimetabolite anticancer drugs and their two adverse effects
11. Mention two antimalarial drugs and one adverse effect of each

1762_2012_1_S185

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Nursing Degree Examination - Feb / Mar 2012

Time: Three Hours

Max. Marks: 75 Marks

Pharmacology, Pathology & Genetics (RS-2 & RS-3)

Q.P. CODE: 1762 & 1763

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
Use separate answer books for section A and section B

Q.P. Code: 1762 - Section A - PHARMACOLOGY (38 Marks)

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Describe bioavailability of the drug. Describe factors affecting bioavailability and its clinical importance
2. Enumerate tetracyclines. Describe the uses, adverse effects and contraindications of tetracycline's

SHORT ESSAYS (Answer any four)

4 x 5 = 20 Marks

3. Omeprazole
4. Frusemide
5. Plasma expanders
6. Extended spectrum penicillin's
7. Isoniazid

SHORT ANSWERS

4 x 2 = 08 Marks

8. Probenicid is combined with penicillin's. Give reason?
9. Pharmacological basis of atropine in organophosphorous poisoning
10. Mention two drugs used as I V anesthetics
11. Mention two antidepressant drugs and two adverse effects

Q.P. Code: 1763 - Section B - PATHOLOGY (25 Marks)

Use separate answer book

LONG ESSAYS (Answer any one)

1 x 10 = 10 Marks

1. Discuss various preservatives, collections methods and analysis of urine sample
2. Mention the causes of disturbances of fluid and electrolyte imbalances, discuss in brief about the measures to take correction

SHORT ESSAYS (Answer any three)

3 x 5 = 15 Marks

3. Discuss about the mechanisms of tissue regeneration, with reference to liver regeneration
4. Chronic obstructive pulmonary diseases
5. Methods of estimation of clotting time and bleeding time
6. Blood culture

GENETICS (12 Marks)

SHORT ANSWERS

6 x 2 = 12 Marks

7. Define mutation and mention different types of mutations
8. Mention four autosomal dominant disorders
9. Give four of glycogen storage disorders
10. Mention enzymes deficient in Nieman - pick disease and Gaucher's disease
11. Mention four abnormalities in Down's syndrome
12. Mention skeletal abnormalities in Marfan's syndrome
