



**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)**

Bachelor of Physiotherapy (BPT)

Second Year Semester – IV September 2025 Examination.

Time: 2 Hrs

Max Marks: 40 Marks

Pharmacology

Q.P Code: B4100

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY

1 X 10 = 10 Marks

1. a. Classify adrenergic receptor antagonists (4)
- b. Explain the uses and contraindications to propranolol (3+3)

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain the mechanism of action, uses and adverse effects of diazepam (1+2+2)
3. Explain the mechanism of action, uses and adverse effects of enalapril (2+2+1)
4. Explain the mechanism of action, uses and adverse effects of succinylcholine (2+2+1)
5. Explain the mechanism of action, uses and adverse effects of heparin (1+2+2)

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Explain the mechanism of action and **two** uses of diclofenac
7. Mention **two** uses and **one** specific adverse effect of insulin
8. Mention **three** beta - 2 receptor agonists used in treatment of bronchial asthma
9. List **three** uses of methotrexate
10. Mention **three** advantages and **three** disadvantages of oral route of drug administration
11. Mention **three** drugs to be avoided in geriatric patients and justify

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Time: 2Hrs 30mins

Max Marks: 80 Marks

General Medicine & Cardio-respiratory Conditions

Q.P Code: B4110

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Define OP Poisoning. Discuss the clinical features, complications and management of OP Poisoning.
2. Enumerate the organism causing pneumonia. Discuss the clinical features, management and complications of bacterial pneumonia.
3. Discuss the etiology, clinical features and management of GI Bleeding.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

4. Discuss the clinical features and management of HIV.
5. Discuss the mode of transmission and management of Tuberculosis.
6. Write a short note on cystic fibrosis
7. Discuss the different types of PEM.
8. Discuss the clinical features and management of Cholecystitis.
9. Discuss the clinical features and management of iron deficiency anemia.
10. List the differences between type 1 and type 2 respiratory failure.
11. Discuss the complications and management of obesity.

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

12. Write a note on Alpha 1 antitrypsin deficiency
13. List causes of Leprosy
14. List the causes for hemophilia
15. List the clinical feature and causes of Rheumatic Fever.
16. Mention the adverse effects of alcohol consumption
17. List the causes of hemoptysis
18. List the complications of blood transfusion
19. List the causes and clinical features of psoriasis.
20. Write a note on Wilson's disease
21. Classify psychiatric disorders
22. List the causes and clinical features of myocarditis
23. List the causes of obstructive lung diseases

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Time: 2hrs 30 mins

Max Marks: 80 Marks

General Surgery & Cardio Thoracic Conditions

Q.P Code: B4120

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Discuss the causes, clinical features and management of Carcinoma of female breast
2. Discuss the causes, clinical features and management of Varicose Veins
3. Discuss the definition, clinical features and management of Bronchiectasis

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Explain the causes and management of BUERGER'S Disease.
5. Explain the complications and indications of Lobectomy
6. Explain the clinical features and management of Colostomy
7. Explain the indication and management of Ischemic Heart Diseases
8. Explain the causes and management of Burns.
9. Explain the clinical features and management of Tetralogy of Fallot.
10. Explain the causes and management of Pleural Effusion
11. Explain in detail the types of anesthesia and its complications

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

12. What is Mitral Stenosis and Insufficiency?
13. What is Esophageal Disruption?
14. List the lesions of Mediastinum.
15. List the types and uses of Biopsy.
16. Write a note on Decortication of Lung.
17. Write a note on Thrombophlebitis.
18. List the uses of Flaps
19. List the difference between upper and lower motor lesion
20. Write a note on Segmentectomy.
21. What is Aortic Stenosis?
22. List the post-operative complications.
23. List the types of Burns.

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Time: 2.30 Hrs

Max Marks: 80 Marks

ELECTROTHERAPY

Q.P Code: B4340

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY

2 X 10 = 20 Marks

1. Classify types of UVR. Explain the methods of test dose and describe calculation of dosage. (2+4+4)
2. Define faradic currents. Explain the physiological and therapeutic effect of faradic current

SHORT ESSAY

6X 5 = 30 Marks

3. Explain the principle and production of LASER
4. Explain indications and contraindications of contrast bath.
5. Define acupuncture TENS. Explain its mechanism for pain modulation
6. Explain thermal and non-thermal effects of ultrasound
7. Explain Placement and Spacing of SWD
8. Define Phonophoresis and method of application

SHORT ANSWER

10 X 3 = 30 Marks

9. Define FG test
10. Define Rheobase and Chronaxie
11. Define motor Units and synapse
12. List the contraindications for IFT
13. Define Amplitude modulated frequency
14. Define duty cycle
15. Define saltatory conduction
16. Enumerate any 3 uses of galvanic current
17. Define Inverse square Law
18. List the drugs used for Iontophoresis



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Max Marks: 40 Marks

Pharmacology

Q.P Code: B4350

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY

1 X 10 = 10 Marks

1. List Sympathomimetics. Explain the Mechanism of action, uses and adverse effects of Selective adrenergic receptor agonists

SHORT ESSAY

3 X 5 = 15 Marks

2. Explain the management of Organophosphorous poisoning
3. Explain the phases of Biotransformation with examples
4. Explain the Mechanism of action and adverse effects of Noradrenaline

SHORT ANSWERS

5 X 3 = 15 Marks

5. Classify Diuretics
6. List the advantages of insulin analogues
7. Define a) Redistribution b) Drug synergism
8. List the bronchodilators used in chronic obstructive pulmonary disease
9. List colloids and crystalloids and list their uses



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Time: 2Hrs 30mins

Max Marks: 80 Marks

General Medicine & Cardio Respiratory Conditions

Q.P Code: B4360

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Define Ischemic Heart Disease. List the clinical features, investigations and management of the same.
2. Describe causes, clinical manifestations, and management of Bronchiectasis.

SHORT ESSAYS

6 x 5 = 30 Marks

3. Explain the clinical features and management of GI bleeding.
4. Explain the causes, complications of hemophilia.
5. Define obesity. List the causes and management of obesity.
6. Explain the clinical features and management of psoriasis
7. Define cyanosis. list the clinical features and causes cyanosis.
8. Discuss the mode of transmission and management of Tuberculosis.

SHORT ANSWERS

10 x 3 = 30 Marks

9. Write a note on Beriberi disease.
10. List the causes of malabsorption syndrome.
11. List the complications of general anesthesia.
12. List the causes of pleural effusion.
13. Write a note on Wilson's disease.
14. List the different types of pneumothorax.
15. List the types of gall stones.
16. List the causes of kwashiorkor.
17. List the causes of chronic obstructive pulmonary disease.
18. List the complications of blood transfusion.



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Time: 2hrs 30 mins

Max Marks: 80 Marks

General Surgery & Cardio Thoracic Conditions

Q.P Code: B4370

Your answer should be specific to the question asked.

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LONG ESSAYS

2 x 10 = 20 Marks

1. Discuss the causes, clinical features and management of Pulmonary Tuberculosis?
2. What are the different types of Skin grafting? Describe the indications, contra-indications and complications of split skin grafting.

SHORT ESSAYS

6 x 5 = 30 Marks

3. Explain the complications and management of Carcinoma of female breast.
4. Explain the clinical features and management of hemothorax.
5. Explain the incision and complications of cholecystectomy.
6. Write a note on Raynaud's disease.
7. Write a note on chest wall deformities.
8. Explain the causes and management of Bronchiectasis.

SHORT ANSWERS

10 x 3 = 30 Marks

9. List the difference between hypertrophic scar and keloid.
10. What is aortic aneurysm?
11. List the types of colostomy.
12. What is rule of nine?
13. List the causes of airway obstruction.
14. List the uses of upper GI Endoscopy.
15. List the types and uses of Biopsy.
16. What is tracheal stenosis?
17. List the complications of anesthesia.
18. List the types of mastectomy.