



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

Bachelor of Physiotherapy (BPT)

Second Year Semester – IV September 2024 Examination.

Time: 3 Hrs

Max Marks: 100 Marks

ELECTROTHERAPY

Q.P Code: B4090

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 faradic currents. Explain the physiological and therapeutic effects of faradic current.
2. Classify types of UVR. Explain the methods of test dose and describe calculation of dosage. Add a note on its therapeutic effects.
3. What is piezo-electric effect? Describe the production of Ultrasound with a neat diagram. Mention the indications and contraindications of ultrasound.

SHORT ESSAY (Answer any ten)

10X 5 = 50 Marks

4. Describe the cable method of SWD
5. Explain the Principles of Fluidotherapy
6. Describe the therapeutic uses and contraindications of moist heat therapy
7. Write a note on Anodal Galvanism.
8. Explain the principles and application of IFT.
9. Write a note on Gate Control Theory of Pain
10. Explain about therapeutic uses of Microwave diathermy
11. Explain the Indications and Contraindications of TENS
12. Explain the methods of application of Wax therapy
13. Explain the procedure of Iontophoresis and various agents of application
14. Describe the Physiological and therapeutic effects of UVR
15. Write a note on Mechanism of propagation of action potential

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

16. Enumerate any 3 dangers of UVR
17. What is standing wave in Ultrasound?
18. Define FG test
19. Define Rheobase and Chronaxie
20. Define motor Units and synapse
21. Define macrocurrents
22. Define Amplitude modulated frequency
23. Define duty cycle
24. Define saltatory conduction
25. Enumerate any 3 uses of galvanic current
26. Define Inverse square Law
27. Enumerate the drugs used for Iontophoresis

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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 blockers (5)
b. Explain mechanism of action, uses and adverse effects of propranolol (2+2+1)

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain the mechanism of action, uses and adverse effects of diclofenac (1+2+2)
3. Explain the mechanism of action, uses and adverse effects of enalapril (2+2+1)
4. List the uses and adverse effects of prednisolone (2.5+2.5)
5. Explain the mechanism of action uses and adverse effects of succinylcholine (2+2+1)

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Mention **three** drugs administered by transdermal route
7. Mention **three** uses of methotrexate
8. Mention **two** uses and **one** adverse effect of nitroglycerine
9. Mention **three** drugs used in neuropathic pain
10. Mention **three** drugs from different categories used in treatment of bronchial asthma
11. Mention **three** drugs contraindicated in elderly patients

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Time: 2.30 Hrs

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. Discuss the clinical features, causes and management of Cholecystitis.
2. Explain the clinical features, complication and management of Bronchiectasis.
3. Explain the causes, clinical features and management of Asthma.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

4. Discuss the clinical features and management of emphysema.
5. Discuss the clinical features of Tetralogy of Fallot
6. Write a short note on pleural disorders
7. Discuss the causes and management of coronary artery disease.
8. Discuss the clinical features and management of Peritonitis.
9. Discuss the clinical features and management of obesity.
10. List the differences between type 1 and type 2 respiratory failure
11. Discuss the complications and management of DM.

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

12. Write a note on Ulcerative colitis
13. List the complication of Hemorrhages
14. List the complications of GI Bleed
15. List the various types of Anemia
16. List the viral skin infections
17. List the causes of Chronic Bronchitis
18. List the causes of hypertension
19. Write a note on Wilson's Disease
20. List the types of Gall Stones
21. Mention the TNM stages of cancer
22. Write a note on Arterial Blood Gas analysis
23. List the causes of STD's

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Time: 2.30 Hrs.

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 Mark

1. Classify congenital heart disorders. Describe the clinical features, investigations & management of tetralogy of Fallot?
2. Describe causes, clinical features, investigations & management of bronchiectasis?
3. Describe the causes, classification, clinical features and management of thermal burns?

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Explain the indications, complications, physiological changes of pneumonectomy.
5. Write short notes on cardio pulmonary bypass machine
6. Explain the causes, clinical features and management of hemothorax
7. Explain the factors affecting Wound healing
8. Explain the causes, clinical features and management of otitis media
9. Explain the causes, clinical features and management of pulmonary embolism
10. Explain the clinical features and management of lung abscess
11. Explain the types, clinical features and management of hernia

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. List the different types of scar
13. What is different type of gangrene and its clinical presentation
14. List different type of abdominal incisions
15. Types of Biopsy
16. List the types of mastectomy
17. What is cardiac tamponade
18. List the indications of Bronchoscopy
19. List the causes of airway obstruction
20. What is esophageal disruption?
21. List the general post-operative complications
22. Write a note on types of deafness
23. What is mitral valve stenosis

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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. What is piezzo electric effect? Describe the production of Ultrasound with a neat diagram.
2. Define Iontophoresis. Describe the mechanism of Iontophoresis and its therapeutic uses (6+4 =10 Marks)

SHORT ESSAY

6X 5 = 30 Marks

3. Explain principles and production of LASER.
4. Explain indications and contraindications of contrast bath
5. Describe therapeutic effects of Russian currents
6. Explain various methods of application of wax therapy
7. Define acupuncture TENS. Explain its mechanism for pain modulation
8. Explain production and indications of MWD

SHORT ANSWER

10 X 3 = 30 Marks

9. Define duty cycle
10. Define motor point
11. List the Advantages and disadvantages of strength duration curve
12. Define Sweep
13. Enumerate any 6 Indications of interferential therapy.
14. What is phonophoresis?
15. Give 2 uses of a wax therapy.
16. Give 2 uses of diadynamic current
17. What is reverse piezo electric effects?
18. Define Action potential



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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. Classify Non-steroidal Anti-inflammatory Drugs (NSAIDs) and explain mechanism of action, uses and adverse effects of Aspirin

SHORT ESSAY

3 X 5 = 15 Marks

2. Explain the Mechanism of action, adverse effects of Glyceryl trinitrate
3. Define Bioavailability? Explain the factors affecting it
4. Explain the Mechanism of action and Contraindications of Atropine

SHORT ANSWERS

5 X 3 = 15 Marks

5. List the demulcents and expectorants.
6. Define first pass metabolism with examples
7. Define a) Drug withdrawal reaction b) Photosensitivity
8. List the cholinergic receptors and cholinomimetic drugs
9. List uses and adverse effects of insulin



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Time: 2.30 Hrs.

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. Discuss the etiology, clinical features and management of lung abscess
2. Define anemia. Discuss the etiology, clinical features, complications and management of iron deficiency anemia

SHORT ESSAYS

6 x 5 = 30 Marks

3. Discuss the causes and management of deep vein thrombosis
4. Discuss the etiology and management of hepatitis B
5. Discuss the clinical features and management of endocarditis.
6. Discuss the clinical manifestations and management of kwashiorkor
7. Discuss the clinical features and management of any one COPD
8. Discuss the causes and clinical features of arteriosclerosis

SHORT ANSWERS

10 x 3 = 30 Marks

9. List the TNM stages of cancer
10. Write a note on cardiac tamponade
11. List the causes of hemophilia
12. Write a note on marasmus
13. List the causes of dyspnea
14. List the causes of GI bleeding
15. List the complications of low-birth-weight infants
16. Write note on dementia
17. What is MMR vaccine
18. Write a note on ABG analysis



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Time: 2.30 Hrs.

Max Marks: 80 Marks

General Surgery & Cardio Thoracic Conditions

Q.P Code: B4370

Your answer should be specific to the question asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Define cholecystectomy, list the indications, incisions and complications of cholecystectomy.
2. Discuss the causes, clinical features and management of Coronary Artery Disease

SHORT ESSAYS

6 x 5 = 30 Marks

3. Explain the classification and complications of Burns.
4. Explain the complications and indications of Lobectomy
5. Explain the management of facial nerve palsy
6. Explain the clinical features and management of Pneumothorax
7. Write a note on Raynaud's disease
8. Explain the clinical features and management of otitis media

SHORT ANSWERS

10 x 3 = 30 Marks

9. What is Mitral Stenosis and Insufficiency
10. List the types and uses of Biopsy
11. List the difference between hypertrophic scar and keloid
12. What is rule of nine?
13. List the types of tubes used in surgery
14. List the types of cardiac tumors
15. List the indications of Nephrectomy
16. What is empyema thoracis
17. List the type of embolism
18. List chest wall deformities