



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

**Bachelor of Physiotherapy (BPT)**

**Second Year Semester – IV March 2023 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. Describe the physiological and therapeutic effects of Short wave diathermy. Add a note on factors influencing the penetration effect. ( 7 + 3 = 10 Marks )
2. Define Iontophoresis and the type of current used in Iontophoresis. Describe the mechanism of Iontophoresis and its therapeutic uses (6+4 =10 Marks)
3. What is S-D Curve? What is the Procedure of doing S-D Curve? Describe the characteristics of curve in Peripheral Nerve Lesions. Add a note on its uses.(2+5+3 =10)

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Enumerate the types of TENS and describe any two in detail
5. Write a short note on pain gate theory
6. Describe the Physiological Effects of Alternating Currents.
7. Write in detail the Treatment Parameters used in Ultrasound Therapy
8. Describe with suitable diagram the Electrode spacing & electrode positioning of SWD.
9. Explain the Phonophoresis & enumerate the contraindications.
10. Enumerate the contraindications of Wax bath and describe the Application method of the same.
11. Describe in detail the Physiological effects of Microwave Diathermy
12. Explain in detail the types of didynamic current.
13. Explain the IFT Parameters and its physiological Effects.
14. Write in detail about the Cavitation and its types.
15. Explain in detail the physiological effect of Infra-red rays,

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Describe dynamic interference of IFT
17. Describe latent Heat in wax therapy
18. Enumerate any 6 contraindications of Wax therapy
19. Mention any two anions and two cations producing drugs for Iontophoresis
20. Define Resting Membrane potential
21. What is skin Impedance ?
22. List the uses of Fuse
23. What is PUVA?
24. Define Chronaxie
25. What is Accommodation?
26. Define summation property of nerve
27. Define Ohms law.



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**Second Year Semester – IV March 2023 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. List routes of drug administration (4)
- b. Explain the advantages and disadvantages of intravenous route of drug administration (3+3)

**SHORT ESSAY (Answer any Three )**

**3X 5 = 15 Marks**

2. Mention **four** drugs of different categories used in treatment of neuropathic pain and write the mechanism of action for any **three** drugs (2+3)
3. List the uses and adverse effects of beta blockers (3+2)
4. Explain the mechanism of action, uses and adverse effects of losartan (2+2+1)
5. Explain the mechanism of action, uses and adverse effects of warfarin (1+2+2)

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

6. Explain the mechanism of action and **two** uses of paracetamol
7. Mention **two** uses and **one** specific adverse effect of metformin
8. Mention **three** drugs from different categories used in treatment of bronchial asthma
9. Mention **three** drugs used in treatment of anaphylactic shock
10. Mention **three** drugs used in treatment of systemic lupus erythematosus
11. Mention **three** pharmacodynamic changes occurring in geriatric 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. Define COPD. Explain the causes, clinical features, investigation and management of COPD
2. Describe the types, causes, clinical features and management of anemia
3. Define hypertension. Explain the causes, types, investigation and management of hypertension.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

4. Explain the causes and clinical features of protein energy malnutrition
5. Explain the clinical features and management of OP poisoning
6. Explain the causes, clinical features and management of interstitial lung diseases
7. Explain any three congenital disorders of heart.
8. Explain the causes, clinical features and management of bronchiectasis
9. Explain the causes, complications and management of cholecystitis
10. Explain the causes, clinical features and management of vitamin D deficiency
11. Explain the clinical features, complications and management of liver diseases

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

12. List the complications post abdominal surgeries
13. List the causes of hemophilia
14. What is reflux esophagitis
15. List the clinical features of vitamin A deficiency
16. List the diagnostic criteria of rheumatic fever
17. List the causes and management of chronic bronchitis
18. List the causes and clinical features of pigmentary anomalies of the skin
19. What is tetralogy of Fallot
20. List the types of gall stones
21. What is emphysema
22. List the tumors of liver
23. List the sexually transmitted diseases

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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 Marks**

1. Discuss the indication, incision and complication of Cholecystectomy
2. Discuss the causes, clinical features and management of Coronary Artery Disease
3. Discuss the types, clinical features and management of Pleural Effusion

**SHORT ESSAYS (Answer any Six)**

**6 x 5 = 30 Marks**

4. Explain the causes and management of Lung Abscess.
5. Explain the complications and indications of Cardio Pulmonary Bypass Grafting
6. Explain the clinical features and management of Pneumothorax
7. Write a note on Atherosclerosis
8. Explain the complications and management of Varicose Veins.
9. Explain the classification and management Facial Nerve Palsy.
10. Explain the complications and management of Carcinoma of female breast
11. Explain the management of Otitis Media

**SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

12. What is Pulmonary Contusion
13. What is tracheal stenosis
14. List the complications post blood transfusion
15. List the types and uses of skin flaps
16. Write a note on Hemothorax
17. Write a note on Bronchogenic Carcinoma
18. What is Aortic disruption
19. Mention few Post-operative Complications after major surgery
20. Write a note on Pulmonary Embolism
21. Classify deafness
22. List complications of heart transplant
23. What is Proctectomy

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