Bachelor of Physiotherapy (BPT)

Second Year Semester – IV October 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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe production of microwave diathermy, its technique of application and dangers. (5+3+2=10)
- 2. Define heat and explain in detail about physical effects and transmission of heat. Add a note on apparatus, indications and contraindications, and technique of application of liquid paraffin wax bath (3+3+4=10)
- 3. Discuss in detail about production of ultrasound and explain its various physiological & therapeutic effects. Add a note on Phonophoresis. (2+5+3=10)

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

- 4. Write in detail about the Physiological and therapeutic uses of Contrast bath.
- 5. Explain the Properties of Waves in Ultrasound
- 6. Explain in detail the Production of Pulsed shortwave Diathermy.
- 7. Write in detail on the effects of Contrast bath
- 8. Explain the Types of SWD Electrode, Placement & Spacing Electrodes.
- 9. Enumerate the Indications and contraindications of IFT
- 10. Explain the Properties and techniques of LASER.
- 11. Write in detail about the surge, types of wave and pulse interval of faradic current
- 12. Explain the benefits of using micro currents.
- 13. Explain high and brief tens in details.
- 14. What is Iontophoresis? Give the importance of its use in physiotherapy.
- 15 Enumerate the theories of pain and explain in detail the pain gate theory.

SHORT ANSWER (Answer any Ten)

 $10 \times 3 = 30 \text{ Marks}$

- 16. Define Erythema
- 17. What is Magnetron?
- 18. Define Lewis hunting reaction.
- 19. Enumerate the laws governing light radiation
- 20. What is Reverse piezo-electric effect?
- 21. What is faradic foot bath?
- 22. Define Wallerian degeneration.
- 23. Enumerate any three uses of transformers.
- 24. What is duty cycle?
- 25. What is Electro Motive Force EMF?
- 26. Define Attenuation
- 27. Mention any two anions and two cations producing drugs for Iontophoresis

Bachelor of Physiotherapy (BPT) Second Year Semester – IV October 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

 $\underline{\text{LONG ESSAY}} \\
1 \text{ X } 10 = 10 \text{ Marks}$

- 1. a. Classify anticholinergies (4)
 - b. Explain the uses and adverse effects of atropine (3+3)

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

- 2. Explain the mechanism of action, uses and adverse effects of nifedipine (1+2+2)
- 3. Explain the mechanism of action, uses and adverse effects of amitriptyline (2+2+1)
- 4. Explain the mechanism of action, uses and adverse effects of methotrexate (1+2+2)
- 5. Explain the mechanism of action, uses and adverse effects of diclofenac (1+2+2)

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

- 6. Explain the mechanism of action and **two** uses of succinylcholine
- 7. Explain the mechanism of action and write **one** use of metformin
- 8. Mention **three** drugs of different categories used in treatment of bronchial asthma
- 9. Mention **three** drugs of different categories used in treatment of parkinsonism
- 10. Mention **three** advantages and **three** disadvantages of intravenous route of drug administration
- 11. Mention **three** drugs to be avoided in geriatric patients and justify

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SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Bachelor of Physiotherapy (BPT) Second Year Semester – IV October 2023 Examination.

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. Explain the clinical features, complications and management of Pleural Effusion.
- 2. Explain in detail about causes, clinical features and management of Hypertension.
- 3. Explain the clinical feature, causes and management of GI Bleeding.

SHORT ESSAY (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- 4. Discuss the clinical features and complications of obesity.
- 5. Discuss the clinical features and management of iron deficiency anemia.
- 6. Discuss the causes and management of psoriasis.
- 7. Discuss the clinical features and management of peptic ulcer.
- 8. Discuss the clinical features and management of endocarditis.
- 9. Write a short essay on Emphysema
- 10. Discuss the causes and management of coronary artery diseases.
- 11. Discuss the clinical features and management of Asthma.

SHORT ANSWER (Answer any Ten)

 $10 \times 3 = 30 \text{ Marks}$

- 12. List the causes of liver tumors
- 13. Write a note on Exercise Stress testing
- 14. List the causes of Dermatitis
- 15. List the types of gall stones
- 16. List the causes of Pericarditis
- 17. List the causes of interstitial lung diseases
- 18. List the complications of blood transfusion
- 19. List the clinical features of Peritonitis
- 20. Write a note on Ulcerative Colitis
- 21. List the pharmaceutical agents misused
- 22. List the complications of Hemophilia
- 23. List the classification of Psychiatric disorders

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SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY) Bachelor of Physiotherapy (BPT)

Second Year Semester – IV October 2023 Examination.

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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe the etiology, clinical features, cause, risk factors and management of coronary artery diseases.
- 2. What are the different types of Skin grafting? Describe the indications, contraindications, advantages and complications of split skin grafting.
- 3. Describe definition, etiology, clinical features, complications and management of varicose veins.

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- 4. Classify burns and explain the management of thermal burns
- 5. Explain the phases and factors affecting wound healing
- 6. Explain the explain the indications, incisions and complications of ileostomy
- 7. Write a short note on Buerger's disease
- 8. Explain the clinical features and management of spontaneous pneumothorax
- 9. Explain the indications, physiological changes and complications of mastectomy
- 10. Definition thoracotomy and list the types of Incisions with emphasis to the site of incision and muscles cut.
- 11. List the difference between hypertrophic scar and keloid

SHORT ANSWERS (Answer Any Ten)

 $10 \times 3 = 30 \text{ Marks}$

- 12. What are different suture materials
- 13. What is Cardiac tamponade?
- 14. List the different type of incisions on abdomen?
- 15. What is Pleurodesis
- 16. List the types of colostomy
- 17. List the type of embolism
- 18. List the indications of Bronchoscopy
- 19. List the factors affecting bleeding during surgery
- 20. What is thrombophlebitis
- 21. List the types of cardiac tumors
- 22. List the complications of blood transfusion
- 23. List the complications of total thyroidectomy

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GE FOR POSTERITY

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

Bachelor of Physiotherapy (BPT)

Second Year Semester - IV October 2023 Examination.

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

 $\underline{\text{LONG ESSAY}} \qquad \qquad 2 \text{ X } 10 = 20 \text{ Marks}$

- 1. Describe the parameters, Types, and Contraindications of TENS (3+5+2=10)
- 2. Explain the methods of application and its therapeutic effects of cryotherapy. (3+5+2=10)

SHORT ESSAY 6X = 30 Marks

- 3. Explain the Therapeutic effects and uses of moist heat.
- 4. Describe the Pulsed SWD and its application
- 5. Describe Pain Gate Theory.
- 6. Explain the physiological effects of IFT and give a note on its indications.
- 7. Explain physiological changes occurring in a nerve during electrical stimulation
- 8. Difference between high frequency and low frequency currents

SHORT ANSWER $10 \times 3 = 30 \text{ Marks}$

- 9. Describe dynamic interference of IFT
- 10. Describe latent Heat in wax therapy
- 11. Enumerate any 6 contraindication of Wax therapy
- 12. Mention any two anions and two cations producing drugs for Iontophoresis
- 13 Define Resting Membrane potential
- 14. What is skin Impedance
- 15. List the Uses of Fuse
- 16. What is PUVA?
- 17. Define Chronaxie
- 18. What is Accommodation

Bachelor of Physiotherapy (BPT)

Second Year Semester – IV October 2023 Examination.

Time: 2 Hrs 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 drugs used in treatment of Parkinsonism. Explain the Mechanism of action, uses and adverse effects of each group of drugs

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 2. Explain the various routes of Drug excretion with examples
- 3. Explain the Pharmacological actions of Acetylcholine
- 4. Explain the Mechanism of action, adverse effects and Contraindications of glucocorticoids

SHORT ANSWERS

5 X 3 = 15 Marks

- 5. List the drugs used in prophylaxis of bronchial asthma
- 6. List the newer drug delivery systems with examples
- 7. List the types of receptor mediated drug action with examples
- 8. List the Angiotensin receptor blockers
- 9. List the differences between Physostigmine and Neostigmine

Bachelor of Physiotherapy (BPT) Second Year Semester – IV October 2023 Examination.

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 $2 \times 10 = 20 \text{ Marks}$

- 1. Explain the causes, clinical features and management of Asthma.
- 2. Discuss the clinical features, complications and management of Peptic Ulcer

SHORT ESSAYS $6 \times 5 = 30 \text{ Marks}$

- 3. Discuss the causes and management of viral hepatitis.
- 4. Discuss the clinical features and management of leprosy.
- 5. Discuss the clinical features and management of myocarditis.
- 6. Discuss the clinical features and management of pneumonia.
- 7. List the difference between marasmus and kwashiorkor
- 8. Discuss the clinical features and management of cystic fibrosis.

SHORT ANSWERS

 $10 \times 3 = 30 \text{ Marks}$

- 9. List the causes of hypertension
- 10. Write a note on Wilson's Disease
- 11. List the types of Gall Stones
- 12. Mention the TNM stages of cancer
- 13. Write a note on Arterial Blood Gas analysis
- 14. List the causes of STD's
- 15. Write a note on Psoriasis
- 16. List the causes of upper respiratory tract infection
- 17. List the causes of malabsorption syndrome
- 18. List the complications of low-birth-weight infants

Bachelor of Physiotherapy (BPT) Second Year Semester – IV October 2023 Examination.

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 $2 \times 10 = 20 \text{ Marks}$

- 1. Classify burns and explain the clinical features, complication and management of burns.
- 2. Describe the etiology, clinical features, investigations & treatment of carcinoma of breast?

SHORT ESSAYS $6 \times 5 = 30 \text{ Marks}$

- 3. Explain the clinical features and management of Pneumothorax
- 4. Explain the indication and complications of cholecystectomy
- 5. Explain the clinical features and management of pulmonary tuberculosis.
- 6. Explain the causes and management of BUERGER'S Disease
- 7. Explain the clinical features and management of hernia
- 8. Explain few Post-operative Complications after major surgery

SHORT ANSWERS $10 \times 3 = 30 \text{ Marks}$

- 9. Write a note on Raynaud's Disease
- 10. What is Esophageal Disruption
- 11. Write a note on Atherosclerosis
- 12.List the uses of upper GI Endoscopy
- 13.List the types and uses of skin grafts
- 14.List the muscles cut during lung surgeries
- 15. Write a note on Ventricular Septal Defect
- 16.List the types of Scars
- 17.List the causes of Otitis Media
- 18.Explain the factors affecting wound healing