

Suppl. exam

SUPPLEMENTARY  
BACHELOR OF PHYSIOTHERAPY  
Second Year : SUMMER : 2024  
SUBJECT: PHARMACOLOGY

Day : Tuesday  
Date : 13/08/2024

S-25049-2024

Time : 10:00 AM-12:00 PM  
Max. Marks : 40

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answer books.

SECTION - A

Q.1 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)

- a) Enumerate three advantages and disadvantages of Intravenous route of administration.
- b) Write in short uses and Adverse Drug Reactions of Morphine
- c) Describe mechanism of Action and two therapeutic uses of Omeprazole.
- d) Name 2 insulin preparations and mention their side effects.
- e) Write mechanism of Action and side effects of Aminoglycoside.

SECTION - B

Q.2 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)

- a) Classify skeletal muscle relaxants. Write therapeutic uses, adverse effects and uses of succinylcholine.
- b) Classify drugs used in Angina.
- c) Classify antihypertensive drugs. Write mechanism of action, therapeutic uses and adverse effects of ACE – inhibitors.
- d) Write therapeutic classification of adrenergic drugs. Discuss uses of adrenaline.
- e) Classify drugs used in treatment of rheumatoid arthritis. Discuss any 1 'Disease Modifying Agent' with respect to advantages and disadvantages.

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**SUPPLEMENTARY**  
**BACHELOR OF PHYSIOTHERAPY**  
**Second Year : SUMMER : 2024**  
**SUBJECT: PATHOLOGY & MICROBIOLOGY**

Day : Wednesday  
Date : 14/08/2024

**S-25050-2024**

Time : 10:00 AM-01:00 PM  
Max. Marks : 80

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answer books.

**SECTION – A**  
**(Questions Based on Pathology)**

- Q.1 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)**
- a) Write a note on laboratory diagnosis of HIV.
  - b) Define edema. Differentiate between transudate & exudate.
  - c) Define neoplasm. Distinguish between benign & malignant tumour.
  - d) Write a short note on Down Syndrome.
  - e) Define COPD. Write a note on emphysema.

- Q.2 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)**
- a) Define Necrosis. Enumerate types of necrosis with the examples.
  - b) Define chronic inflammation. Write a note on granuloma with examples.
  - c) Describe pathology of Myocardial Infarction.
  - d) Write a note on Parkinsonism.
  - e) Enlist factors affecting wound healing.

**SECTION – B**  
**(Questions Based on Microbiology)**

- Q.3 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)**
- a) Enumerate different antibodies in humans. Describe IgG in detail.
  - b) Describe laboratory diagnosis of *Vibrio cholerae*.
  - c) Write about different specific tests used for diagnosis of syphilis.
  - d) Describe the methods of virus isolation.
  - e) Write a short note on structure of HIV.

- Q.4 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)**
- a) Write a short note on Hepatitis B vaccine.
  - b) Write about pathogenesis of Malaria.
  - c) Write about Universal standard precautions.
  - d) Write laboratory diagnosis of Candidiasis.
  - e) Write the classification of atypical mycobacteria with its examples.

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SUPPLEMENTARY  
BACHELOR OF PHYSIOTHERAPY  
Second Year : SUMMER : 2024  
SUBJECT: KINESIOLOGY

Day : Saturday  
Date : 17/08/2024

S-25052-2024

Time : 10:00 AM-01:00 PM  
Max. Marks : 80

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat labelled diagrams **WHEREVER** necessary.

**SECTION-A**

- Q.1** Attempt any **TWO** out of **THREE**:
- a) Describe kinetic and kinematic of gleno-humeral joint. (20)
  - b) Describe kinetic and kinematic of elbow joint. (10)
  - c) Describe the muscles of respirations and mechanism of respirations. (10)
- Q.2** Attempt any **FOUR** out of **FIVE**:
- a) Describe the pulley system of hand. (20)
  - b) Explain concave and convex rule with example.
  - c) Describe relation of COG and BOS in balance.
  - d) Describe 'Q' angle in knee joint.
  - e) Describe closed and open chain kinematic.
  - f) Explain use of cane in unilateral standing.

**SECTION-B**

- Q.3** Attempt any **TWO** out of **THREE**:
- a) Explain stress strain curve. (20)
  - b) Describe kinetic and kinematic hip joint. (10)
  - c) Describe kinetic and kinematic of sub-talar joint. (10)
- Q.4** Attempt any **FOUR** out of **FIVE**:
- a) Explain role of sensory organization for balance. (20)
  - b) Explain functional re-education for supine to sit.
  - c) Describe types of muscle contraction.
  - d) Describe dynamic stabilizers of shoulder joint.
  - e) Write a note on Arches of foot.
  - f) Describe the moment arm and angle of pull.

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**SUPPLEMENTARY**  
**BACHELOR OF PHYSIOTHERAPY**  
**Second Year : SUMMER : 2024**  
**SUBJECT: ELECTROTHERAPY**

Day : Tuesday  
Date : 20/08/2024

**S-25054-2024**

Time : 10:00 AM-01:00 PM  
Max. Marks : 80

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat labelled diagrams **WHEREVER** necessary.

**SECTION-A**

**Q.1** Answer Any **TWO** out of **THREE**: **(2×10=20)**

- a) Describe the Physiological and therapeutic effects of Faradic current. (5+5)
- b) Discuss advantages of IFT. Write about physiological and therapeutic effects of IFT. (2+4+4)
- c) Discuss positioning of electrodes with diagrams in short wave diathermy. Also discuss its indications and contraindications. (4+6)

**Q.2** Answer any **FOUR** out of **FIVE**: **(4×5=20)**

- a) Describe physiological and therapeutic effects of IRR.
- b) Explain effects and uses of UVR.
- c) Write the method of application of LASER therapy.
- d) Describe with neat labelled diagrams various types of SD curve.
- e) Describe postural biofeedback.

**SECTION-B**

**Q.3** Answer Any **TWO** out of **THREE**: **(2×10=20)**

- a) Explain pain gate theory and explain parameters of TENS. (5+5)
- b) Write types of electrodes used in IFT. Discuss indications and contraindications effects. Add a note on methods of application. (2+3+5)
- c) What is mark space ratio? Write thermal and non-thermal effects of ultra sound. Write method of application. (1+4+5)

**Q.4** Answer any **FOUR** out of **FIVE**: **(4×5=20)**

- a) Define Motor point. Draw neat labelled diagram for motor points on the hand.
- b) ~~Explain the pain gate mechanism with diagram.~~ *Write a Short Note on Russian Currents*
- c) Describe the types of UVR.
- d) Describe potential dangers and precautions in the use of IRR.
- e) Discuss pulsed SWD.

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