

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

Day : Tuesday
Date : 11/06/2024

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) Classify opioid analgesics. Describe the uses with rationale and adverse effects of morphine.
- b) Explain the management and preventive measures of constipation
- c) Compare and contrast Ampicillin and Amoxicillin.
- d) Write the uses of Vitamin D.
- e) Classify the bronchodilators used to treat asthma. Give 2 examples of each.

SECTION - B

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

- a) Write short note on Transdermal route.
- b) Write uses of beta blocker.
- c) Write a note of ACE inhibitors (Mechanism of Action, Adverse Drug Reactions, and Uses).
- d) Classify anticoagulants and mention their uses.
- e) Classify Cephalosporins. Mention therapeutic uses and adverse effects.

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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.

BACHELOR OF PHYSIOTHERAPY

Second Year : SUMMER : 2024

SUBJECT: PSYCHOLOGY

Day : Saturday

Date : 15/06/2024

S-25051-2024

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) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION-I

Q.1 Short Answer Questions: (Any FOUR out of FIVE) (20)

- a) Describe any one type of Conflict.
- b) Difference between Bipolar I and Bipolar II.
- c) Mention two criteria for diagnosing OCD.
- d) Differentiate between neuroticism and psychoticism.
- e) Explain classical conditioning experiment by Ivan Pavlov.

SECTION-B

Q.2 Short Notes: (Any FOUR out of FIVE) (20)

- a) Normality
- b) Clinical Psychology
- c) Encoding
- d) Short term memory
- e) Learning disability

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

Day : Tuesday
Date : 18/06/2024

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**: (20)
- a) Describe articulating surfaces of shoulder joint. Write a note on scapulo-humeral rhythm. (5+5)
 - b) Describe kinetic and kinematic of cervical spine. Write a note on intervertebral disc. (7+3)
 - c) Describe kinetic and kinematic of elbow joint. (10)
- Q.2** Attempt any **FOUR** out of **FIVE**: (20)
- a) Describe trabeculae system of hip joint.
 - b) Describe different types of muscles contraction.
 - c) Describe different types of forces.
 - d) Explain pump handle and bucket handle moment.
 - e) Write a note on precision grip with example.
 - f) Write a note on types of muscle fiber.

SECTION-B

- Q.3** Attempt any **TWO** out of **THREE**: (20)
- a) Describe kinetic and kinematic of temporomandibular joint. (10)
 - b) Describe Arches of foot. (10)
 - c) Describe articulation of menisci in knee joint. Explain locking and unlocking mechanism of the knee joint. (5+5)
- Q.4** Attempt any **FOUR** out of **FIVE**: (20)
- a) Describe balance strategies.
 - b) Explain sit to stand in functional re-education.
 - c) Describe active and passive insufficiency.
 - d) Describe lever system with example.
 - e) Explain pronation and supination twist in mid-foot.
 - f) Describe various joint classification.

BACHELOR OF PHYSIOTHERAPY
Second Year : SUMMER : 2024
SUBJECT: KINESIOTHERAPY

Day : Thursday
Date : 20/06/2024

S-25053-2024

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

Q.1 Answer any **TWO** of three questions. (2X 10=20 Marks)

- a) Explain determinants of strengthening.
- b) Explain principles of mobility exercises.
- c) Define postural drainage. Describe various positions to give postural drainage to right lower lobe.

Q.2 Answer any **FOUR** of five questions. (4X 5=20 Marks)

- a) Explain any five trick movements with examples.
- b) Explain functional re-education for kneel sit to stand with muscle work.
- c) ~~Explain types of contractures.~~ *Types of Muscle Contraction*
- d) Enumerate advantages and disadvantages of home exercise program.
- e) Explain any five closed chain exercises to improve mobility at knee joint.

SECTION - B

Q.3 Answer any **TWO** of three questions. (2X 10=20 Marks)

- a) Describe posture in standing from anterior view. Explain any two postural deviations in the same.
- b) Explain breathing exercises: Indications, Types of inspiratory breathing exercises *Explain In details Static & Dynamic Balance Exercises*
- c) Discuss kinetics and kinematics of swing phase of gait.

Q.4 Answer any **FOUR** of five questions. (4X 5=20 Marks)

- a) Explain pre-crutch training.
- b) Explain types of humidifiers.
- c) Explain principles of Frankel's exercises with suitable examples.
- d) Explain types of Traction with their uses.
- e) Describe forced expiratory techniques with their uses.

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

Day : Saturday
Date : 22/06/2024

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) Define TENS and its types. Explain parameters of TENS. Add a note on methods of applications of the same. (3+4+3)
- ~~b) Explain principle of interferential therapy currents. Write in detail about parameters of IFT. (2+8)~~
- c) Define ultrasound. Write in details its treatment methods. (2+8)
- b) Define Faradic Current. Write in detail principle and method of application of Faradism Under Pressure.

Q.2 Answer any **FOUR** out of **FIVE**:

(4×5=20)

- a) Describe Iontophoresis.
- b) Describe EMG biofeedback.
- c) Write physiological and therapeutic effects of UVR.
- d) Explain Wound Healing with Electrotherapeutic modalities.
- e) Explain techniques and method of application of IRR.

SECTION-B

Q.3 Answer Any **TWO** out of **THREE**:

(2×10=20)

- a) Define galvanic and interrupted galvanic current. Technique and interpretation of Strength Duration (SD) curve. (5+5)
- b) Write types of electrodes used in IFT. Discuss indications and physiological effects. Add a note on methods of application. (2+3+5)
- c) What is SWD? Describe technique and methods of application. (2+8)

Q.4 Answer any **FOUR** out of **FIVE**:

(4×5=20)

- a) Discuss various methods to reduce skin resistance.
- b) How to Calculate UVR dose for Psoriasis.
- c) Explain various types of biofeedback.
- ~~d) Discuss various techniques of applications of Ultrasound.~~
- e) Explain the terms Rheobase and Chronaxie.
- d) Discuss Non-Thermal effects and Dangers of Ultrasound

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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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