BACHELOR OF PHYSIOTHERAPY First Year : SUMMER : 2024 SUBJECT: HUMAN ANATOMY

Day: Tuesday

Time: 10:00 AM-01:00 PM

Date	Date: 11/06/2024		S-25044-2024		Max. Marks: 80	
N.B	1) 2) 3) 4)	Figures to the Draw neat dis	are COMPULSORY. RIGHT indicate FULL marks. agram WHEREVER necessary. ions should be written in SEPARATE	answerbook.		
3	5 8		SECTION - A			
Q.1	Lor. A)	g Answer question Describe post trie i) Boundaries ii) Applied and		: (7+3)	(20)	
	B)	ii) Intra articul	int under on, bones forming the joint ar structures I unlocking movement	(2+5+3)		
	C)	Describe cubital i) Boundaries ii) Contents	fossa under	(5+5)		
Q.2	Wri a) b) c) d) e)	te short notes (Solv Blood supply of I Hamstring muscl Axillary nerve Relations of splee Deltoid muscle	es		(20)	
Q.3	Lon, A)	g Answer questions Describe tongue i i) Gross anatom ii) Muscles of i iii) Nerve suppl	my congue	(4+2+4)	(20)	
	B)	Describe internal i) Parts ii) Relations iii) Fibers passii iv) Blood suppl		(2+2+4+2)		
	C)	Describe thyroid (i) Parts, relation (ii) Coverings (iii) Blood supply	ns	(5+2+3)		
Q.4	a) b)	e short notes (Solv Root of lung Sesamoid bone Femoral artery Supination pronat Abdominal acrta	e ANY FOUR out of FIVE):		(20)	

BACHELOR OF PHYSIOTHERAPY First Year: SUMMER: 2024 SUBJECT: HUMAN PHYSIOLOGY

Day: Thursday Date: 13/06/2024

S-25045-2024

Time: 10:00 AM-01:00 PM

Max. Marks: 80

N.B.

All questions are COMPULSORY.

- Figures to the RIGHT indicate FULL marks.
- Draw neat diagram WHEREVER necessary.

Both the sections should be written in SEPARATE answerbook.

SECTION - A

Q.1 Long Answer questions (Attempt ANY TWO):

(2x10=20)

- Describe cardiac output. Give its normal value. Describe various factors determining cardiac output. (1+1+8)
- b) Describe in detail neural regulations of respiration. Add a note on hypoxic hypoxia. (6+4)
- c) Describe original and spread of cardiac impulse. Draw and label various waves of electrocardiogram in lead II. Mention cause of each wave. (5+2+3)
- Q.2 Short Essay Questions (Attempt ANY FOUR):

(4x5=20)

- a) Respiratory changes in moderate exercise
- b) Physiological actions of glucocorticoids.
- c) Compositions and functions gastric secretion
- d) Phases of menstrual cycle
- e) Peculiarities of coronary circulation

SECTION - B

Q.3 Long Answer questions (Attempt ANY TWO):

(2x10=20)

- a) Draw and label pyramidal tract. Describe origin, course, and termination of pyramidal tract. What is hemiplegia? (3+5+2)
- b) With the help of diagram, explain transmission across neuromuscular junction. Add a note on myasthenia gravis. (2+5+3)
- c) Define pain. Explain referred pain with theories and examples. Add a note on Brown Sequard Syndrome. (1+5+4)
- Q.4 Short Essay Questions (Attempt ANY FOUR):

(4x5=20)

- a) Functions of WBC
- b) Action potential in large myelinated nerve fiber
- c) Types of deafness
- d) Parkinson's disease
- e) Micturition reflex

BACHELOR OF PHYSIOTHERAPY

First Year: SUMMER: 2024 SUBJECT: BIOCHEMISTRY

Day: Saturday Date: 15/06/2024

S-25046-2024

Time: 10:00 AM-12:00 PM

Max. Marks: 40

N.B.

- All questions are COMPULSORY.
- Figures to the RIGHT indicates FULL marks.
- 3) Draw neat and labelled diagram WHEREVER necessary.
- 4) Both the sections should be written in **SEPARATE** answer book.

SECTION-A

Q.1 Short Answer Questions (Attempt ANY FOUR)

(4x5=20)

- a) Tricarboxylic Acid (TCA) Cycle.
- b) Phospholipids: Classification and Functions.
- c) Diagnostic applications of enzymes.
- d) Hemoglobin: Chemistry, Structure Types and Functions.
- e) Beta oxidation of fatty acids with energetics.

SECTION-B

Q.2 Short Answer Questions (Attempt ANY FOUR)

(4x5=20)

- a) Atherosclerosis.
- b) Urea cycle.
- c) Calcium: Sources, Functions and Disorders.
- d) Vitamin A: Sources, Functions and Deficiency manifestations.
- e) ELISA: Principle, working and applications.

BACHELOR OF PHYSIOTHERAPY

First Year: SUMMER: 2024

SUBJECT: FUNDAMENTALS OF KINESIOLOGY & KINESIOTHERAPY

Time: 10:00 AM-01:00 PM Day: Tuesday S-25047-2024 Max. Marks: 80 Date: 18/06/2024 N.B.: 1) All questions are COMPULSORY. 2) Figures to the right indicate FULL marks. Answers to both the sections should be written in SEPARATE answer book. 3) Draw neat labelled diagrams WHEREVER necessary. 4) SECTION-A Write any TWO out of THREE: (20)0.1 a) Define Axis and Planes. Discuss its types in detail with examples. b) Explain Sitting as a fundamental position. Describe any two derived position from Sitting. Define Suspension therapy. Explain different types of Suspension with examples in detail. Write any FOUR out of FIVE: (20)Q.2 a) Describe Superficial Sensation. b) Describe individual and Group exercises. Describe Second Order lever and Mechanical advantage. Describe Centre of Gravity and Base of Support. Explain Isometric and Isotonic muscle work. SECTION-B (20)Write any TWO out of THREE: Q.3 Define Active movements. Enumerate its classification. Explain Free Active exercises in detail. Define Goniometry. Write types of Goniometer. Discuss technique of application for Hip flexion. Define Relaxation. Discuss techniques of General Relaxation in detail. (20)Q.4 Write any FOUR out of FIVE: Describe normal end feels with examples. a) Discuss fluid mechanics related to Hydrotherapy. Explain any two Asanas from sitting position.

Describe Pulley with examples.

Describe shoulder Wheel and its uses.

BACHELOR OF PHYSIOTHERAPY First Year: SUMMER: 2024 SUBJECT: FUNDAMENTALS OF ELECTROTHERAPY

Day: Thursday
Date: 20/06/2024

S-25048-2024

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 answerbook.

SECTION - A

Q.1 Attempt ANY TWO of the following:

(20)

- Explain in detail different methods of application of cryotherapy. Write a note on Louise Hunting reaction.
- b) Explain the contents of paraffin wax bath with its proportion and write methods of applications in detail.
- c) Discuss in detail Physiological effects and Therapeutic effects of heattherapy. Add a note on the construction of a Hydrocollator unit.

Q.2 Write ANY FOUR of the following:

(20)

- a) Define resistance. Explain factors determining the resistance. Write about resistance in series and resistance in parallel.
- b) Properties of laser.
- c) Biophysics of Ultrasound.
- d) Describe types of IRR. Add a note on flaw detection principle.
- e) Earth shock

SECTION - B

Q.3 Attempt ANY TWO of the following:

(20)

- a) Describe different type of electrodes used for low frequency currents. Discuss different wave forms of Faradic current and importance of surging.
- b) Describe production of Short Wave Diathermy (SWD). Draw panel diagram of SWD and describe testing of SWD.
- c) Write principles and production of IFT. Explain vector rotation in IFT.

Q.4 Write ANY FOUR of the following:

(20)

- a) Contrast bath
- b) Theraktin tunnel
- c) Testing of ultrasound
- d) Proporties of lasor. Describe various types of TENS
- e) Grid system
