

BACHELOR OF PHYSIOTHERAPY  
Second Year PHYSIOTHERAPY : WINTER : 2023  
SUBJECT : PHARMACOLOGY

Day : Tuesday  
Date : 3/10/2023

W-25049-2023

Time : 10:00 AM- 12.00 Noon  
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) Define plasma half-life. Give its significance.
- b) What are side effects of prolonged gluco-corticoid therapy? How you can reduce them?
- c) What are the uses of Antihistaminics?
- d) Enumerate three advantages and disadvantages of Intravenous route of administration.
- e) Describe mechanism of action and two therapeutic uses of Omeprazole.

**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 antihypertensive drugs. Write mechanism of action, therapeutic uses and adverse effects of ACE – inhibitors.
- c) Classify anticoagulants and mention their uses.
- d) Classify Cephalosporins. Mention therapeutic uses and adverse effects.
- 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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**BACHELOR OF PHYSIOTHERAPY**  
**Second Year PHYSIOTHERAPY : WINTER : 2023**  
**SUBJECT : PATHOLOGY & MICROBIOLOGY**

Day : Thursday  
Date : 5/10/2023

W-25050-2023

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

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**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.
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**SECTION - A**  
**(Questions Based on Pathology)**

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

- a) Define ulcer. Compare between duodenal and gastric ulcer.
- b) Summarise CSF findings in viral, tuberculous & pyogenic meningitis.
- c) Write a note on Primary Tuberculosis.
- d) What are differentiating features between dystrophic and Metastatic calcification?
- e) Define Thrombus. Write in detail pathogenesis of thrombus formation.

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

- a) Write a note on Wound Healing by Primary Intention.
- b) Enumerate different types of Edema and discuss Renal Edema.
- c) Write a note on Aschoff's nodule.
- d) Define apoptosis. Write differences between apoptosis and necrosis with examples.
- e) Write a note on myasthenia gravis.

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

**Q.3 Short Answer Question (Any Four out of Five) (4 × 5 = 20 Marks)**

- a) Write about the difference between bacteria and viruses.
- b) Enumerate 5 infection caused by *Staphylococcus spp.* Describe its laboratory diagnosis.
- c) Enumerate different antigen antibody reactions. Describe precipitation reactions in details with its uses.
- d) What is disinfection? Write classification of disinfectants with suitable examples.
- e) Write a short note on Widal test and its interpretation.

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

- a) Write a short note on Universal Standard precautions.
- b) Write a short note on OPV vaccine.
- c) Describe laboratory diagnosis of Hydatid cyst.
- d) Describe the methods of anaerobiosis.
- e) Write about laboratory diagnosis of Candidiasis.

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**BACHELOR OF PHYSIOTHERAPY**  
**Second Year PHYSIOTHERAPY : WINTER : 2023**  
**SUBJECT : PSYCHOLOGY**

Day : Saturday  
Date : 7/10/2023

W-25051-2023

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) Write any major symptoms of Schizophrenia.
- b) Write in brief any two stages of Piaget's cognitive therapy.
- c) Explain two criteria's for OCD.
- d) Difference 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) Depression
- b) STM
- c) Divided Attention
- d) Clinical Psychology
- e) Displacement in defense mechanism

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**BACHELOR OF PHYSIOTHERAPY**  
**Second Year PHYSIOTHERAPY : WINTER : 2023**  
**SUBJECT : KINESIOLOGY**

Day : Monday  
Date : 9/10/2023

W-25052-2023

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) Explain kinetic and kinematic of scapulo-thoracic joint. (10)
  - b) Describe proximal and distal radio ulnar joint. Write a note on carrying angle. (7+3)
  - c) Describe kinetic and kinematic of lumbar spine. Write a note on lumbar-pelvic rhythm. (7+3)
- Q.2** Attempt any **FOUR** out of **FIVE**: (20)
- a) Describe Osteokinematic and arthokinematic.
  - b) Describe screwing mechanism of Knee joint.
  - c) Describe stress strain curve.
  - d) Write effect of immobilization on muscle and joint.
  - e) Describe active and passive insufficiency.
  - f) Explain mechanical advantage in lever.

**SECTION-B**

- Q.3** Attempt any **TWO** out of **THREE**: (20)
- a) Describe articulating surfaces of hip joint. Write a note on use of cane in hip joint. (5+5)
  - b) Describe structure and function of ligament and menisci of the knee joint. (5+5)
  - c) Describe different types of grip and grasp in hand. (10)
- Q.4** Attempt any **FOUR** out of **FIVE**: (20)
- a) Explain different balance strategies.
  - b) Describe functional re-education for sit to stand.
  - c) Describe factors affecting muscle contraction.
  - d) Explain pump and bucket handle motion.
  - e) Write a note on Acromio-clavicular joint.
  - f) Write a note on kinematic of Temporo Mandibular joint.

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**BACHELOR OF PHYSIOTHERAPY**  
**Second Year PHYSIOTHERAPY : WINTER : 2023**  
**SUBJECT : KINESIOTHERAPY**

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 11/10/2023

W-25053-2023

Max. Marks : 80

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**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.
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**SECTION – A**

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

- a) Explain principles of strengthening.
- b) Explain five therapeutic exercises to increase shoulder joint mobility.
- c) Define postural drainage. Explain contraindications for the same

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

- a) Define subjective and objective grades of manual muscle testing.
- b) Explain functional re-education for supine to prone with muscle work.
- c) Explain any three types of stretching.
- d) Explain indications and contraindications for hydrotherapy.
- e) Describe technique for diaphragmatic breathing exercises. Add a note on its benefits.

**SECTION – B**

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

- a) Describe posture in standing from sagittal view. Explain any two postural deviations in the same.
- b) Explain principles of Frankel's exercises. Describe any five Frankel's exercises.
- c) Discuss kinetics and kinematics of stance phase of gait.

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

- a) Describe design of walker
- b) Explain jet nebuliser: Principle, design and uses
- c) Describe creep phenomenon with example
- d) Enumerate indications and contraindications of Traction
- e) Explain adjuncts to Postural Drainage

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2 nd yr  
university / Final Exam

**BACHELOR OF PHYSIOTHERAPY**  
**Second Year PHYSIOTHERAPY : WINTER : 2023**  
**SUBJECT : ELECTROTHERAPY**

Day : Friday

Time : 10:00 AM-01:00 PM

Date : 13-10-2023

W-25054-2023

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 physiological and therapeutic effects of faradic current. Discuss Faradic re-education in detail. ( 5+5 )
- b) State advantages of IFT over TENS. State contraindications and precautions of IFT. (4+6)
- c) Discuss physiological and therapeutic effects of short wave diathermy. Write in detail about methods of application. (5+5)

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

- a) Explain the pain gate mechanism.
- b) Describe faradic foot bath.
- c) Discuss Russian currents.
- d) Write in detail the property of accommodation.
- e) Describe the di-dynamic currents.

**SECTION-B**

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

- a) Explain types of TENS. Describe the procedure of applications. (4+6)
- b) Define Interferential current therapy. Discuss physiological and therapeutic effects of interferential current therapy. ( 2+8)
- c) Discuss thermal and non-thermal effects of ultra-sound. Explain various techniques of application. (5+5)

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

- a) Describe effects and uses of IRR.
- b) Explain techniques and method of application of UVR.
- c) Draw neat labelled diagram of motor points of face.
- d) Write in detail the uses of biofeedback.
- e) Describe phonophoresis.

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**ABILITY ENHANCEMENT COMPULSORY COURSE  
(AECC-ENVIRONMENTAL STUDIES) : JULY-2023  
SUBJECT : ENVIRONMENTAL STUDIES**

Day : Sunday

Time : 10:00 AM-11:30 AM

Date : 9/7/2023

**S-50001-2023**

Max. Marks : 50

**N.B.**

- 1) Questions No. 16 is **COMPULSORY**. It carries **10 marks**.
- 2) Answer **ANY EIGHT** questions from Q.No. 1 to Q.No. 15.
- 3) **Q.No. 1 to Q.No. 15 carries 05 marks each.**

1. What is the importance of public awareness in environmental management?
2. Explain role of equitable use of resources in sustainable development.
3. What is nutrient cycling and what is its role in nature?
4. Explain in brief the difference between food chain and food web with suitable examples.
5. How is agriculture in India affected by climate change?
6. How consumerism is bad for solid waste management problem. Discuss
7. What is the importance of endemic species? what are the methods of conserving endemic species?
8. In terms of resource use, what are some of the steps we can take a lead a more sustainable lifestyle?
9. What are the current threats to river ecosystem and how these ecosystems can be conserved?
10. Discuss any two common plant species, in terms of their description and use.
11. Describe different ways of conservation of water.
12. Write down the impacts of non-renewable energy resources on the environment.
13. What is eutrophication? How is it caused?
14. Write a short note on 'Wildlife Protection Act 1972.
15. What are the components of the environment?
16. **Match the pairs.**

Sr. No	A	B
1	Dachigam National park	Wet Waste
2	SACON	Municipal solid waste disposal facility
3	Western Ghats	Life-threatening parasite disease
4	Palash/ Palas	Chennai
5	Mango	Flame of the forest
6	Dry leaves	Hangul
7	Non-Timber Forest Product	Global Biodiversity Hotspot
8	Landfill	Mangifera indica
9	Fluorosis	Fodder
10	Malaria	Fluoride in water

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