

BACHELOR OF PHYSIOTHERAPY
Second Year : SUMMER : 2025
SUBJECT: PHARMACOLOGY

Day : Tuesday
Date : 10/06/2025

S-25049-2025

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** answerbook.

SECTION - A

Q.1 Short answer question (**ANY FOUR** Out of **FIVE**) : (4x5=20)

- a) Define hematinics. How is iron deficiency anemia treated? Write adverse effects of iron treatment.
- b) Define plasma half-life. Give its significance.
- c) Write mechanism of action and side effects of Aminoglycoside.
- d) What are side effects of prolonged glucocorticoid therapy? How you can reduce them?
- e) What are the uses of antihistaminics?

SECTION - B

Q.2 Short Answer Questions: (**ANY FOUR** Out of **FIVE**) : (4x5=20)

- a) Classify Penicillins. Mention mechanism of action, therapeutic uses and adverse effects of Penicillins.
- b) Define and classify Adverse Drug Reaction. Add a note on teratogenicity?
- c) Write note on clinical categories of TB and their dosage regimen.
- d) Classify various routes of drug administration. Compare advantage and disadvantage of oral and parenteral routes.
- e) Write note on prokinetic agents.

SUPPLEMENTARY
BACHELOR OF PHYSIOTHERAPY
Second Year : SUMMER : 2025
SUBJECT: PATHOLOGY & MICROBIOLOGY

Day : Friday
Date : 29/08/2025

S-25050-2025

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 diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written on **SEPARATE** answer sheet.

SECTION - A
(Questions Based on Pathology)

- Q.1** Short Answer Questions (Any **FOUR** out of **FIVE**) (4×5=20)
- a) Define inflammation. Discuss in brief about chemical mediators of inflammation.
 - b) Define meningitis. Discuss CSF findings in various types of meningitis.
 - c) Discuss clinical features of rheumatoid arthritis.
 - d) Define myocardial infarction. Discuss in brief cardiac function test.
 - e) Write morphology of pulmonary tuberculosis.
- Q.2** Short Answer Questions (Any **FOUR** out of **FIVE**) (4×5=20)
- a) Define Amyloidosis. Discuss pathogenesis of amyloidosis along with special stain to demonstrate amyloid.
 - b) Discuss clinical features of myasthenia gravis.
 - c) Write classification of pneumonia. Describe stages of pneumonia.
 - d) Define healing and repair. Discuss healing of fracture.
 - e) Discuss etiopathogenesis of liver cirrhosis. Enumerate complications of liver cirrhosis.

SECTION - B
(Questions Based on Microbiology)

- Q.3** Short Answer Questions (Any **FOUR** out of **FIVE**) (4×5=20)
- a) Enumerate micro-organisms causing CNS infections. Write in detail about laboratory diagnosis of Pneumococcal meningitis.
 - b) Write in detail about laboratory diagnosis *Candida albicans*.
 - c) Write characteristic features of ideal disinfectant.
 - d) Define antibody. Write in detail about IgM antibody.
 - e) Describe laboratory diagnosis of HIV.
- Q.4** Short Answer Questions (Any **FOUR** out of **FIVE**) (4×5=20)
- a) Write about laboratory diagnosis of Pulmonary Tuberculosis.
 - b) Describe in detail about Biomedical waste management.
 - c) Write a short note on Hepatitis B vaccination.
 - d) Describe Bacterial cell wall in detail.
 - e) Classify cestodes with examples.

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BACHELOR OF PHYSIOTHERAPY
Second Year : SUMMER : 2025
SUBJECT: PATHOLOGY & MICROBIOLOGY

Day : Thursday
Date : 12/06/2025

S-25050-2025

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) Answer to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat diagram **WHEREVER** necessary.

SECTION -A

Question Based on Pathology

Q.1 Short Answer question (**ANY FOUR OUT OF FIVE**) (4 x 5 = 20 Marks)

- a) Define inflammation. Enumerate cardinal signs of inflammation. Add note on chronic granulomatous inflammation.
- b) Write a note on Type IV hypersensitivity reaction.
- c) Define Infarct Write different types of infarct and its microscopy.
- d) Write a note on Macrocytic anemia –Etiology, Peripheral smear findings and its clinical features.
- e) Write a note on Peptic ulcer.

Q.2 Short Answer question (**ANY FOUR OUT OF FIVE**) (4 x 5 = 20 Marks)

- a) Define Necrosis. Enumerate types of necrosis. Add note on coagulative necrosis.
- b) Clinical features of AIDS/HIV.
- c) Define thrombosis. Describe Virchow's triad. Enumerate fate of thrombosis.
- d) Note on Myocardial infarction.
- e) Note on Down's syndrome.

SECTION -B

Question Based on Microbiology

Q.1 Short Answer question (**ANY FOUR OUT OF FIVE**) (4 x 5 = 20 Marks)

- a) Classify culture media used in Microbiology lab with relevant examples.
- b) Write a short note on Lab, diagnosis of meningococcal meningitis.
- c) Write a short note on Weil's disease.
- d) Write short note on PPE (Personal protective equipment)
- e) Write about different test used for laboratory diagnosis of Hepatitis B infections

Q.2 Short Answer question (**ANY FOUR OUT OF FIVE**) (4 x 5 = 20 Marks)

- a) Define hypersensitivity reaction. Classify different types of hypersensitivity reactions. Add a note on Type IV hypersensitivity reactions.
- b) Write a short note on BCG vaccine.
- c) Enumerate 5 infections caused by *Streptococcus spp.* Describe its laboratory diagnosis.
- d) Classify culture media used in Microbiology lab with relevant examples.
- e) Define hospital acquires infections in detail.

BACHELOR OF PHYSIOTHERAPY
Second Year : SUMMER : 2025
SUBJECT: KINESIOLOGY

Day : Monday
Date : 16/06/2025

S-25052-2025

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** Long Answer questions (Attempt **ANY TWO**) : (2x10=20)
- a) Enlist the name and explain the role of ligaments of the Shoulder joint. (06+04)
Write a note on scapulo-humeral rhythm.
 - b) Describe the articulating surfaces of Atlanto-axial joint. Explain the kinematic of Cervical vertebrae. (05+05)
 - c) Explain kinetic and kinematic of the Elbow joint. (05+05)
- Q.2** Short Essay Questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Describe the active and passive insufficiency with example.
 - b) Define osteo-kinematic and arthro-kinematic with example.
 - c) Describe convex concave rule with example.
 - d) Differentiate between the type I and type II muscle fibers.
 - e) Describe nutation and counter nutation of pelvis.

SECTION - B

- Q.3** Long Answer questions (Attempt **ANY TWO**) : (2x10=20)
- a) Describe articulation of tibio-femoral and patello-femoral joint. Write a note on Quadriceps angle. (06+04)
 - b) Describe the ankle complex. Explain the various types of arches of foot. (04+06)
 - c) Explain kinetic and kinematic of the Wrist joint. (05+05)
- Q.4** Short Essay Questions (Attempt **ANY FOUR**) : (4x5=20)
- a) Describe the role of different sensory system in balance.
 - b) State the various phases of stair climbing up and down.
 - c) Explain different types of muscle action.
 - d) Describe the structure and function of intervertebral disc.
 - e) Describe angle of inclination hip joint.
