



2024 BATCH - B. Sc. PHYSICIAN ASSISTANT

FIRST YEAR –INTERNAL EXAM – II - (23.06.2025)

PAPER I – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY

Time: 3 hours

Subject Code: 1601

Maximum: 100 marks

Answer all the questions

- I. Elaborate on** **10 x 3 = 30**
1. Circle of Willis.
  2. How is Urine formed? Describe the mechanism in detail.
  3. Explain in detail about Enzyme classification and Factors affecting enzyme activity.
- II. Write notes on** **5 x 8 = 40**
1. Structure of skin
  2. Vision pathway.
  3. Puberty in female.
  4. Micturition.
  5. Anatomy of kidney with neat diagram
  6. Anatomical structure about urethra for male & female
  7. Vitamin D – Chemistry, sources, deficiencies, metabolism and functions with diagram
  8. Sodium and Phosphorus – Functions, sources and deficiencies
- III. Short answers on** **3 x 10 = 30**
1. Ear ossicles
  2. Define Neuron with Diagram
  3. Reflex action
  4. Function of skin (any 3)
  5. Functions of tongue
  6. Define anatomy and Physiology.
  7. Draw a diagram and mention about urinary bladder
  8. Calcium
  9. Pellagra
  10. i) Which vitamin is essential for the formation of collagen and acts as an antioxidant?(NEET - National Eligibility cum Entrance Test, 2024)  
a) Vitamin A                      b) Vitamin B12                      c) Vitamin C                      d) Vitamin D
- ii) Which of the following cells in the testes are responsible for secreting testosterone?(NEET - National Eligibility cum Entrance Test, 2023)  
a) Sertoli cells                      b) Spermatogonia                      c) Leydig cells                      d) Spermatids
- iii) Which of the following correctly describes the role of the myelin sheath in a neuron?  
(NEET - National Eligibility cum Entrance Test, 2020)  
a) It decreases the speed of nerve impulse conduction.  
b) It is formed by astrocytes in the peripheral nervous system.  
c) It insulates the axon, allowing saltatory conduction.  
d) It directly generates action potentials in the neuron.