

# THE UNIVERSITY OF BURDWAN

B. Sc. Part III Honours (1+1+1) Theory Examination, 2021

SUBJECT: PHYSIOLOGY

Paper: V

Time: 3 Hours

Full Marks: 50

The figures in the right hand margin indicate full marks  
Candidates are required to give their answers in their own words as far as practicable.

Examinees are instructed to submit the scanned copies/photographs of their answers' scripts within 30 minutes after the completion of examination

Answer all *questions* as instructed

1. Answer any **three** of the following questions: **(3 X 10 = 30)**
  - a) What is multi unit smooth muscle? Discuss the mechanism of transmission of nerve impulse through a chemical synapse. (10)
  - b) What is after image? Describe the pathway for vision with suitable diagram. (10)
  - c) What are Barrington Reflexes? Discuss how kidney maintains pH of blood? (10)
  - d) What is pyramidal tract? Discuss origin, course and termination of pyramidal tract with suitable diagram. (10)
  
2. Answer any **four** of the following questions: **(4 X 5 = 20)**
  - i. Mention how impulse conduction occurs in myelinated nerve. (5)
  - ii. Diagrammatically describe histology of organ of taste bud. (5)
  - iii. Briefly mention what happens when light fall on retina. (5)
  - iv. Discuss the characteristic features of mRNA. (5)
  - v. Why hypothalamus is called master gland-explain? (5)