

2023
B.A./B.Sc.
Third Semester
GENERIC ELECTIVE – 3
ZOOLOGY
Course Code: ZOG 3.11
(Human Physiology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Discuss the role of digestive glands in protein digestion and absorption. 10+4=14
2. Describe the structure of pancreas. Explain how hormone regulate the digestive process. 10+4=14

UNIT-II

3. Elucidate the propagation of nerve impulse in a myelinated nerve fibre with the help of labelled diagrams. 14
4. Write notes on the following: 7×2=14
 - (a) Structure of skeletal muscles
 - (b) Sliding filament theory

UNIT-III

5. Explain how blood transports oxygen in the body. Add a note on the important factors that affect gas transport. 9+5=14
6. Write notes on the following: 7×2=14
 - (a) Pulmonary respiration
 - (b) Respiratory pigment

UNIT-IV

7. With the help of a neat, labelled diagram explain the structure of heart.
Explain the importance of coordination in heartbeat. $9+5=14$
8. Write notes on the following: $7 \times 2 = 14$
- (a) Role of kidney in urine formation
 - (b) Regulation of blood pressure

UNIT-V

9. How is oogenesis different from spermatogenesis? Describe the process of oogenesis. $4+10=14$
10. What are endocrine glands? Explain the role and significance of pituitary gland. $4+10=14$
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