

2022
B.A./B.Sc.
Third Semester
GENERIC ELECTIVE – 3
ZOOLOGY
Course Code: ZOG 3.11
(Human Physiology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. What are digestive glands? Explain their role in carbohydrate digestion and absorption. 2+12=14
2. Describe the structure of liver and write the functions of its secretion. 7+7=14

UNIT-II

3. Explain the mechanism involved in muscle contraction. 14
4. Write a note each on the following: 7×2=14
 - (a) Structure of neuron
 - (b) Neuromuscular junction

UNIT-III

5. What is respiration? Discuss how carbon dioxide is transported in blood. 2+12=14
6. Write a note each on the following: 7×2=14
 - (a) Lung volumes and capacities
 - (b) External and internal respiration

UNIT-IV

7. Describe the role of kidney in urine formation with diagram. 14
8. Write a note each on the following: $7 \times 2 = 14$
- (a) Cardiac cycle
 - (b) Electrocardiogram

UNIT-V

9. What is spermatogenesis? Describe the phases involved in the process. $2 + 12 = 14$
10. Write a note each on the following: $7 \times 2 = 14$
- (a) Structure and functions of thyroid gland
 - (b) Parathyroid gland and their hormones
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