

Register Number:

Date: 26-10-19

T. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
B.Sc., ZOOLOGY - III SEMESTER
SEMESTER EXAMINATION: OCTOBER 2019

ZO 318 –HUMAN ANATOMY AND PHYSIOLOGY PART I

Time- 2 1/2 hrs

Max Marks-70

This paper contains 1 printed pages and four parts
Draw labelled diagrams wherever necessary.

PART A

I Answer the following:

7 X 1 = 7

1. The common pathway of the penis carrying sperms along urine is _____.
2. Binding of hemoglobin with oxygen to form oxyhemoglobin is irreversible. **True/False**
3. Aminopeptidase is an exopeptidase. **TRUE/FALSE**
4. _____ & _____ are the foramina present in the mandible in humans.
5. Elastic fibers are present in the _____ layer of the skin.
6. The neck of the humerus is made of _____ & _____ parts.
7. Ejection of bile juice is caused by _____ hormone.

PART B

II Answer the following:

4 X 2 = 8

8. Define & Quantify alveolar ventilation.
9. Draw a neat labelled diagram of a typical rib.
10. Differentiate between eccrine and apocrine glands.
11. With reference to ruminant digestion, which are favourable to farm managers- Methanogens or Acetogens? Why?

PART C

III Answer any FIVE of the following:

5 X 5 = 25

12. Draw and label the internal structure of a testis.
13. Write short notes on asthma and add a note on its treatment.
14. Explain excitation-contraction of the muscles.
15. With a neat labelled diagram, explain the structure of a breast bone.
16. What is osmoregulation? Explain the process in a marine elasmobranch.
17. Draw and label the structure of a lymph node.
18. Depict the branches of descending aorta with illustrations.

PART D

IV Answer any THREE of the following:

3 X 10 = 30

19. a) Draw and explain the anatomy of the large intestine. (8)
b) Name the cells of the gastric gland. (2)
20. a) With special reference to the skeletal system, list out the distinguishable characters of *Homo sapiens*. (5)
b) Explain the general structure of a long bone. (5)

21. Describe the internal structure of the kidney. Add a note on the hormones influencing the functions of the kidneys. (6+4)
22. Explain Bohr's effect with reference to oxygen transportation. Explain the factors influencing the dissociation of oxygen.

14-A-19

OCTOBER-2019