



Register Number:

DATE:

**ST. 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 ½ hrs**

**Max Marks-70**

This paper contains TWO printed pages and FOUR parts

**Note:** Indicate the question numbers clearly  
Draw labelled diagrams wherever necessary  
**Answer all PART A questions together with the answer word.**

**PART A**

**I. Answer the following questions. Each question carries one mark                      7x1= 7**

1. In breathing, movements of lungs are governed by \_\_\_\_\_
2. The membrane which covers muscle fibre is \_\_\_\_\_
3. Circulation system which provides supply of blood to muscles of heart is named as \_\_\_\_\_
4. The largest corpuscle in the blood is \_\_\_\_\_
5. The internal lining of uterus wall is called \_\_\_\_\_
6. Artery leaving from left ventricle of the heart is \_\_\_\_\_
7. Homeostatic thermostat which facilitate process of thermoregulation in man is present in \_\_\_\_\_

**PART B**

**II. Briefly answer the following questions. Each question carries two marks                      4x2= 8**

8. Define uricotelism with an example.
9. Briefly explain the role of Cholecystokinin.
10. Write a brief note on ketosis.
11. Draw and label the mandible of man.

### PART C

III. Answer any five questions. Each question carries five marks

5x5= 25

12. Give a brief account of pneumonia, specifying anatomical changes, etiology and treatment.
13. Draw and explain the structure of scapula.
14. Define homeostasis .What is positive feedback mechanism? Explain with an example.
15. Explain the anatomy of liver. Add a note on its functions.
16. Graphically depict & explain the oxygen dissociation curves and the factors influencing it.
17. Draw a neat labelled diagram of section of testes.
18. a. Draw and label the gross structure of the tongue .(3m)  
b. Give an account of dentition in man. (2m)

### PART D

IV Answer any THREE of the following. Each question carries ten marks

3x10= 30

19. a. Draw a labelled diagram of section of ovary. (4m)  
b. Name the parts of fallopian tubes and their histology. (2m)  
c. Describe the branches of the respiratory tree with neat labelled diagram. Enumerate functions of alveoli. (4m)
20. a. Name the secretions of the stomach .Explain their physiological role. (5m)  
b. With a neat labelled diagram, explain the arterial system in man. (2m+3m)
21. Draw and describe the structure of radius and ulna.
22. Give a detailed account of characteristics, composition and ultra-structure of muscle, with diagrams.

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