



Register Number:

DATE: 23-11-2020

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27**  
**B.Sc., ZOOLOGY –V SEMESTER**  
**SEMESTER EXAMINATION- November 2020**  
**ZO 5218- ECOLOGY, WILDLIFE AND ANIMAL BEHAVIOUR**

Time- 2 ½ hrs

Max Marks-70

*This paper contains two printed pages and four parts*

**PART A**

**I. Answer the following questions. Each question carries 1 mark 7X1= 7**

1. The deepest aphotic zone is found in the \_\_\_\_\_ ocean.
2. \_\_\_\_\_ is a key agency that regulates the toxicological studies of pesticides and industrial chemicals.
3. CITES stands for \_\_\_\_\_.
4. \_\_\_\_\_ was the first scientist to translate the meaning of waggle dance in honeybees.
5. \_\_\_\_\_ is a primate which exhibits exchange of individuals among groups.
6. The caste system of a termite colony is maintained by \_\_\_\_\_.
7. Male stickle-back fish fanning the eggs with fins is an example of \_\_\_\_\_.

**PART B**

**II. Briefly answer the following questions. Each question carries 2 marks 4 X2 = 8**

8. Differentiate between weather and climate.
9. List out the differences between 'r' and 'K' selected species.
10. Comment on the role of IPCC in the climate change scenario.
11. Why is a keystone species important in an ecosystem?

### PART C

III. Answer any five questions. Each question carries 5 marks

5 X 5 = 25

12. List out the major effects of nutrient enrichment in an ecosystem.
13. Briefly explain the productivity measurement using 'light and dark bottle method'.
14. With suitable examples, explain endocrine disruptors.
15. Comment on the protected areas of wildlife in India.
16. What is associative learning? Explain the various types.
17. Briefly explain the techniques involved in the study of animal behaviour.

### PART D

II. Answer any three questions. Each one carries 10 marks

3X10= 30

18. Explain the zonation of marine ecosystem. With suitable examples, classify the marine biota.
19. Give a detailed account of the effect of light on animals.
20. Describe the various stages of ecological succession with reference to hydrosere.
21. State Hamilton's rule in sociobiology. Elaborate on the co-operative breeding in birds and brood parasitism.

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