## **RAMAKRISHNA MISSION VIDYAMANDIRA**

(Residential Autonomous College affiliated to University of Calcutta)

## SECOND YEAR [2018-21] B.A./B.Sc. THIRD SEMESTER (July – December) 2019 Mid-Semester Examination, September 2019

Date	: 19/09/2019 <b>ZOOLOGY (General)</b>	
Time	: 11 am – 12 noon <b>Paper : III</b>	Full Marks : 25
<u>Group :A</u>		
Ansv	ver <u>any two</u> questions :	[2×5]
1.	Write down the histology of Thyroid gland with a suitable diagram.	[3+2]
2.	What are acromegaly and acromicria? Compare between Group I and Group II hormones.	[2+3]
3.	Describe the different stages of an Action Potential with a labelled diagram. neurotransmitters? What is synaptic delay?	What are [3+1+1]
4.	Depict the process of osmoregulation in fresh water teleosts. What is TMAO? Mention the osmoegulation process in fish.	its role in [3+1+1]

## Group :B

Answer any three questions : [3×5] 5. Differentiate between the national park, wildlife sanctuary and biosphere reserve. Mention example of each. Write down the significance of red data book. [2+1.5+1.5]Discuss about different types of biodiversity. Mention the biodiversity hot-spots in India. Give two 6. examples of mammal who belong to 'Schedule-I' under WPA, India. [2+2+1]7. What is nuptial flight? What is royal jelly? Discuss about the roles of worker bee in a bee-hive. [1+1+3]8. What is the importance of BOD? Briefly explain the mechanism of formation of acid rain. What is  $PM_{10}?$ [2+2+1]Define 'Natality' and 'Mortality'. What are the different types of population distribution? 9. Distinguish between 'k-strategy' and 'r-strategy'. Define 'carrying capacity' of a population. [1+1+2+1] 10. Define 'Ecotone'. Mention its different types. Give the mathematical expression of species diversity index. Explain the 'Competitive Exclusion Principle' by describing Gause's experiment in brief.[1+1+1+2]

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