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PG (NEW) CBCS

M.Sc. Semester-II Examination, 2020

ZOOLOGY

PAPER: ZOO 201

Full Marks: 20 **Time: 1 Hours**

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

(Marks: 10)

(Biosystematics)

1. Answer one question of the following:

a. Enumerate the relationship between taxonomy and systematic. What do you mean by taxonomic characters? Give a short note on sibling species. Give the full form of ZSI and ICZN. 3+3+3+1

b. What do you mean by micro and macro taxonomy? Mention the role of systematics in applied biology. 3+7

c. What do you mean by species concept? Briefly describe the evolutionary species concept. What is polytypic species and ring species? 2+4+2+2

Write short notes on: 3+3+2+2

i) 'Law of priority'

ii) Taxonomic key

iii) Synonym and Tautonym

GROUP-B

(Marks: 10)

(Ecological principles)

2. Answer one question of the following:

a. Differentiate between niche and habitat. What do you mean by fundamental niche and realized niche? What are edge effect and ecotone? 2+4+4

b. Briefly describe the competitive exclusion principle with example. What do you mean by niche overlap and resource partitioning? 6+2+2

(P.T.O.)

c. Enumerate Bet Hedging principle. Describe the organismic and individualistic concept of community. What is ecological guild and ecological equivalent? 3+4+3

d. Discuss cybernetic nature of ecosystem. Give a comparative account of *r* and *k* strategies. 5+5

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