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This question paper contains 4+2 printed pages]

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M.Sc. (II Sem.) Examination, 2019

ZOOLOGY

Paper-Z-07

(Animal Taxonomy)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 28

This question paper will be divided into ***three*** *sections as under :*

Section-A ***Max. Marks-10***

Will carry ***10*** *marks with* ***1*** *compulsory question comprising* ***10*** *short answer type questions (maximum* ***20*** *words answer) taking* ***two*** *questions from each unit. Each question shall be of* ***one*** *mark.*

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Section-B ***Max. Marks-25***

Will carry ***10*** *questions,* ***2*** *questions from each unit (answer in about* ***250*** *words). Students are instructed to attempt* ***five*** *questions by selecting* ***one*** *question from each unit.*

Section-C ***Max. Marks-35***

Will carry ***35*** *marks with* ***five*** *long answer type questions comprising* ***one*** *compulsory question (question No.* ***7****) of* ***15*** *marks and* ***four*** *questions of* ***10*** *marks each. Students are instructed to attempt total* ***three*** *questions with* ***one*** *compulsory question (answer in about* ***500*** *words) and any* ***two*** *more questions (answer in about* ***400*** *words) out of remaining* ***four*** *questions.*

Section A

1. Answer the following questions briefly :

(i) Who coined the term 'Taxonomy' ?

(ii) Define systematics.

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(iii) What is super species ?

(iv) What is taximetrics ?

(v) Define taxonomic character.

(vi) What is a taxonomic key ?

(vii) Write the basis of classification of phylum Mollusca.

(viii) Give *two* important characters of phylum Annelida.

(ix) Write *two* differences between pisces and tetrapoda.

(x) Write one important key character of class mammalia which is present in all mammals.

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Section B

UNIT-I

2. Write importance of taxonomy.

Or

Write a short note on "Rules of Nomenclature".

UNIT-II

3. Write a short note on "Infraspecific categories".

Or

Write about process of identification.

UNIT-III

4. Discuss "Concept of key characters".

Or

Write a short note on "Types of Variations".

UNIT-IV

5. Classify phylum Porifera upto class giving characters and examples.

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Or

Classify phylum Echinodermata upto class giving characters and examples.

UNIT-V

6. Write important characters of Agnatha. Classify the only living class included in Agnatha upto orders giving characters and examples.

Or

Classify class Amphibia giving characters and examples.

Section C

Note : Q. No. **7** is compulsory and carries **15** marks. Attempt any *two* questions from Q. Nos. **8** to **11** which carry **10** marks each.

7. Discuss concept of species in detail. Comment upon the concept of superspecies critically. 15

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8. Describe methods of classification in detail and examine each method critically. 10

9. What is sonotaxonomy ? Discuss importance of sound, call and sonogram in taxonomy. Write about its limitations also. 10

10. Describe classification of phylum mollusca. Give salient features and examples. 10

11. Write explanatory notes on : 10

(i) Cytotaxonomy

(ii) Hemichordata : Characters and classification.

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