Name		
		1
Dog No		

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2013

(CUCSS)

Zoology

Z0 1C T03-SYSTEMATIC AND EVOLUTION

(2010 admissions)

me : Three Hours

Maximum: 36 Weightage

- I. Answer the following :-
 - 1 What is "chemotaxonomy"?
 - 2 What is the significance of Typological species?
 - 3 Precisely describe what is "Cladistics".
 - 4 Distinguish between "Homonomy" and "Synonomy".
 - 5 Briefly describe taxonomic key.
 - 6 How is DNA bar coding important?
 - 7 Precisely explain hierarchial classification.
 - 8 How is "Sibling species" different from "sub species"?
 - 9 What is meant by "intrasexual selection"?
 - 10 Explain what a "Gene Pool" is.
 - 11 Precisely explain what "Gradualism" is.
 - 12 What is meant by "Epistasis"?
 - 13 Briefly outline what "stabilizing selection" is.
 - 14 What is meant by "Meiotic drive"?

 $(14 \times 1 = 14 \text{ weightage})$

- II. Answer any seven of the following:-
 - 15 Give an account on Numerical Taxonomy.
 - 16 Explain the major rules of ICZN.
 - 17 Describe "simple non-bracket" key.
 - 18 Comment on "Biochemical Taxonomy".
 - 19 Evaluate the ethics to be considered in "Taxonomic Publication".
 - 20 Describe "Phylogenetic Classification".
 - 21 Explain "Bottleneck phenomenon" and its significance.
 - 22 Describe the relevance of "punctuated equilibrium".
 - 23 Enumerate the role of "secondary sexual characters" in Natural Selection.
 - 24 Explain "Parsimony Analysis".

 $(7 \times 2 = 14 \text{ weightage})$

Turn over

- III. Answer any two of the following:-
 - 25 Analyse and evaluate the major phases of "Primate Evolution".
 - 26 Give an account of Hardy-Weinberg Law and significance in the light of evolutionary proces
 - 27 Enumerate the different kinds of Taxonomic characters.
 - 28 Describe the major "historical phases" leading to Modern Systematics.

 $(2 \times 4 = 8 \text{ weightag})$

Valle of the purple non-hadren of the care of the care

 $(7 \times 2 = 11 \text{ weightage})$