

GANDHI P.R. COLLEGE, BHOPAL

Assignment-2020-21

M.Sc-Ist SEM

Zoology

Paper-I

Biosystematics, taxonomy and evolution

Q.1 Write short note :-(any one)

a) Cytotaxonomy

b) basic concept of biosystematics taxonomy.

Q.2 Write note on international code of zoological Nomenclature. (ICZN)

Or

Write note on Taxonomic procedure.

Q.3 Taxonomic categories.

Or

Evaluation of Dominance index.

Q.4 Hardy-Weinberg law of genetic equilibrium.

Or

Genetic drift.

Q.5 Phylogenetic and biological concept of species.

Or

Micro & Macro evolution.

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Paper-II

Structure and function of invertebrates

Q.1 Acoelomates

Or

Ciliary movement in protozoa.

Q.2 Digestion in mollusc

Or

Mechanism of respiration in lower invertebrates.

Q.3 mechanism of osmoregulation

Or

Excretion in lower invertebrates

Q.4 Nervous system in Echinodermata

Or

Nervous system in Arthropoda

Q.5 Larval form in Mollusca

Or

Affinities of Phoronida

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Paper-III

Quantitative Biology biodiversity and wild life

Q.1 What do you understand by matrices ?

or

Explain chi square test.

Q.2 Analysis of variance

Or

Regression

Q.3 concept and principal of biodiversity.

Or

Modicinal uses of forest plant(any five)

Q.4 Wildlife protection act.

Or

Endangered and threatened species.

Q.5 National Parks and sactuaries

Or

Biospheres reserves.

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Paper-IV

Biomolecules and structural Biology

Q.1 Explain weak bond.

Or

Nanoparticles and its biological relevance.

Q.2 Explain protein folding

Or

Role of RNA in gene expression

Q.3 Glycolysis

Or

Degradation of fatty acids

Q.4 Biosynthesis of cholesterol

Or

RNA splicing

Q.5 Describe regulation of enzyme reaction.

Or

Mechanism of Enzyme catalysis.