All questions are of equal marks

Que. 1 Write short notes on-

(i) Nanoparticles
(ii) Biomaterials

Que. 2 Describe structure of RNA and its role in gene expression.

Que. 3 Explain glycolysis and gluconeogenesis.

Que. 4 Describe biosynthesis of membrane lipids and steroids.

Que. 5 Write an essay on enzymes terminologies classification and basis of enzyme kinetics.
M.Sc. (First semester) Zoology
(Regular/Private/ATKT)

Paper-I (Biosystematics, taxonomy and evolution)

All questions are of equal marks

Que. 1 - What is Biosystematics? Write Basis concept of Biosystematics.

Que. 2 - Explain taxonomic procedures of taxonomic collection.

Que. 3 - Describe taxonomic categories.

Que. 4 - What is Hardy - Weinberg law of genetic equilibrium. Explain it.

Que. 5 - Write short notes on -
(i) Concepts and mechanism of speciation
(ii) Gene evolution
M.sc I semester Zoology  
Regular/Private/Atkt  

Paper-III Quantitative Biology, Biodiversity & Wildlife  

All questions are of equal marks  

Q.1 What do you understand by quantitative biology, also explain exponential Function & probability  

Q.2 Describe different sampling methods with example in daily life.  

Q.3 Explain biodiversity conservation method and also the causes for the loss of biodiversity.  

Q.4 What is wildlife protection act.  

Q.5 Provide short notes on different wildlife projects in India.
NOTE- all questions are compulsory
Word limit -150 words

Paper II structure and function of invertebrates

Q.1- Explain hydrostatic Movement in coelenterates?

Q.2- Describe patterns of feeding and digestion in Mollusca?

Q.3- How excretion in lower vertebrates occurs?

Q.4- Explain nervous system of Annelida?

Q.5- Explain various larval forms of Echinodermata and their significance?