

D 70371

(Pages : 2)

Name _____

Reg. No. _____

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS—UG)

Zoology

ZOL 5B 09—GENERAL METHODOLOGY IN SCIENCE, BIostatISTICS AND
INFORMATICS

Time : Three Hours

Maximum : 80 Marks

Part A

I. One Word Questions. Answer *all* questions. Each carries 1 mark :

- 1 _____ refers to available facts which serve to support a hypothesis.
- 2 _____ is the imitation of a real thing, state of affairs, or process.
- 3 The recorded value of an experiment is _____.
- 4 _____ is the classified data presented in an orderly manner.
- 5 _____ is statistical table where the frequencies of preceding classes are added.
- 6 Illegal copying of software is called _____.
- 7 _____ is computer communication network for linking libraries and information senders in universities, colleges, UGC information centers and R&D institutions.
- 8 _____ is an interactive computer-generated experience taking place within a simulated environment.
- 9 Fraudulent act to obtain user names, passwords and credit card is _____.
- 10 A reliable program that keep computers safe from hackers is _____.

(10 × 1 = 10 marks)

Part B

II. Short Answer Questions. Answer any *ten* questions. Each carries 2 marks :

- 11 What is knowledge ? Mention its types.
- 12 What is scientific proof ?
- 13 Define hypothetico-deductive model of hypothesis.
- 14 Definition and scope of biostatistics.
- 15 Write the equations used in grouped and ungrouped data for calculating arithmetic mean.

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16. What is a sample? Mention sample size.
17. How to create cyber presence?
18. Write a brief note on open access publishing models.
19. What is cyber addiction?
20. What is e-governance?
21. What is Dial-up?
22. What are E-wastes?

(10 × 2 = 20 marks)

Part C

III. Paragraph Questions. Answer any *five* questions. Each carries 6 marks :

23. Explain theories and laws in science.
24. Explain the difference between inductive and deductive reasoning.
25. Explain depositories of scientific information.
26. Briefly describe the classification of data.
27. Explain the difference between histogram and bar diagram. Briefly describe their uses.
28. Explain cyber security and privacy issues.
29. Write notes on internet and mobile phones.
30. Explain IT in resource management.

(5 × 6 = 30 marks)

Part D

Essay Questions. Answer any *two* questions. Each carries 10 marks :

31. What is an experiment? How will you design an experiment? What are the principles and procedures involved in experimentation?
32. What is a data? How will you process statistical data?
33. Write an account on the health issues guide-lines for proper usage of computers, internet and mobile phones.

Explain futuristic Information Technology Artificial Intelligence.

(2 × 10 = 20 marks)