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(Pages : 2)

Name.....................................

Reg. No..............................

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS–UG)

Zoology

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

Time : Three Hours

Maximum : 80 Marks

A. Answer *all* questions. Each carries 1 mark :

1　What is empiricism ?

2　Define Patent.

3　What is virtual testing ?

4　What is Section 51A (G) ?

5　What is meant by variable ?

6　Give the full form of IPR.

7　What is digital divide ?

8　What is E-waste ?

9　What is *Adhoc* hypothesis.

10　What is environmentally sustainable IT called ?

(10 × 1 = 10 marks)

B. Answer any *ten* questions in two *or* three sentences each. Each carries 2 marks :

11　What is hypothetico-deductive model ?

12　What is Plagiarism ?

13　Differentiate between deductive reasoning and inductive reasoning.

14　What is control experiment ? Explain its necessity in the design of experiment.

15　What is peer review ?

16　What is Chi-square test ? List its applications.

17　What is standard error ? Write the formula.

18　Name the different internet access methods.

19　What is futuristic IT ?

20　What is free software movement ?

Turn over

21 What are the different aspects of cyber crimes ?

22 What is Unicode ?

                                                        (10 × 2 = 20 marks)

C. Answer any *five* questions in not more than *a paragraph* each. Each carries 6 marks :

23 Give an account on different types of depositories of scientific information.

24 What is the importance of models in science ?

25 What is meant by measures of central tendency ? What are different types ?

26 Give an account on different types of sampling errors.

27 What is cyber addiction ? What are the health issues associated with it ?

28 What is e-governance ? What are its applications at national and state level ?

29 Give a detailed account on INFLIBNET, NICNET and BRNET as academic services.

30 Give an account on open access initiatives.

                                                        (5 × 6 = 30 marks)

D. Write essays on any *two* of the following. Each carries 10 marks :

31 Give a detailed account on presentation of data.

32 Give a detailed account on experimentation.

33 Explain in detail the applications of IT in various fields.

34 Explain in detail the various threats in IT field.

                                                        (2 × 10 = 20 marks)