Reg. No. : .....

Name : .....

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B – 3746

Third Semester B.Sc. Degree Examination, December 2016

First Degree Programme Under CBCSS

X ZOOLOGY (P)

Core Course – III

ZO 1341 : Methodology and Perspectives of Zoology

(2015 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (in **one** or **two** sentences. **One** mark **each**).

1) What is Empiricism ?

2) What are uncontrolled observations ?

3) Why control is important in experimentation ?

4) Discuss pseudoscience.

5) Describe normal distribution.

6) What is radio labelling ?

7) Activities of CMFRI and CIFT.

8) Uses of chromatography.

9) What is random sampling ?

10) Principle of fluorescent microscope.

(10×1=10 Marks)

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II. Answer **any eight** of the following (**Not** to exceed **one** paragraph. **Each** carries **two** marks).

11) Define arithmetic mean and median.

12) Describe importance of statistical tools in data interpretation.

13) Negative impact of science in human life.

14) What is hypothetico deductive model ?

15) Describe different types of microtomes.

16) Explain the principle of spectrophotometry.

17) What is plagiarism ?

18) Define scientific temper.

19) What is binomial nomenclature ?

20) How phase change is attained in phase contrast microscope ?

21) Mention important components of TEM.

22) List major achievements of Zoological Survey of India. **(8×2=16 Marks)**

III. Answer **any six** of the following. (**Not** to exceed **120** words. **Each** carries **4** marks).

23) Discuss major differences between SEM and TEM.

24) Briefly explain important sampling methods.

25) Give a brief account of steps involved in scientific naming.

26) Describe the principle and applications of chromatography.

27) Explain the principle and mechanism of autoradiography.

28) Mention the location and major scientific achievements of Rajeev Gandhi centre for Biotechnology.

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29) Discuss major steps involved in Taxidermy.

30) Give a brief account of type of experiments.

31) Describe dark field microscope. **(6×4=24 Marks)**

V. Answer **any two** of the following (**Each** carries **15** marks).

32) Explain the principle, major components and uses of phase contrast microscope.

33) Give a detailed account on branches of zoology and important opportunities as zoologist.

34) Discuss in detail measures of central tendency.

35) Describe different types of observations. **(2×15=30 Marks)**

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