M 6579

Reg. No. : ....

Name : ....

First Semester B.Sc. Degree Examination, November 2009
STATISTICS (CORE)
Course – 1 : Methodology and Perspectives of Statistics (IB 01 STA)

Time: 3 Hours   Total Weightage : 30

*Instruction : Use of Calculator and Statistical Tables **permitted**.*

PART – A

Answer **any 10** questions :   **(Weight : 1 each)**

1. Give two important uses of X-ray in medical field.

2. Name two branches of science which are not related to real world phenomenon.

3. Mention two fields of application of projective geometry.

4. What is empiricism ?

5. What is realism ?

6. Distinguish between dependent and independent variables.

7. Give the definition of statistics made by Prof. Horace Secrist.

8. What are the important measures of central tendency ?

9. What is sampling ?

10. What is primary data ?

11. What are the different bases of classification ?

P.T.O.

PART – B

Answer **any 6** questions : (Weight : 2 each)

12. Discuss the important areas of science.

13. Distinguish between pure science and applied science with suitable examples.

14. Distinguish between induction and deduction.

15. Discuss the scientific method of positivism.

16. Distinguish between text book knowledge and frontier science knowledge.

17. What is scientific revolution ? Explain.

18. How the concept of probability is introduced in scientific statements ?

19. Mention any five techniques in Operations Research.

20. What is time series data ? Discuss its main components.

PART – C

Answer **any two** questions : (Weight : 4 each)

21. Discuss the various steps in a scientific study.

22. Discus the scope of statistics in various branches of study.

23. What are the important advantages of sampling over census ?

24. Draw a Histogram for the following data relating to the daily wages of 150 workers in a factory.

Wage :	0 – 50	50 – 100	100 – 150	150 – 200	200 – 300
No. of Workers :	10	40	60	30	10