Reg. No. : ....

Name : ....

I Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./
B.A. Afsal-Ul-Ulama Degree (CCSS – Regular/Supple./Improvement)
Examination, November 2013

CORE COURSE IN STATISTICS

1B01 STA : Methodology and Perspectives of Statistics

Time : 3 Hours   Max. Weightage : 30

Instruction : Use of calculator and statistical tables permitted.

PART – A

Answer **any 10** questions. (Weightage **1 each**)

1. What are the important steps in a scientific method of enquiry ?

2. How do you define science ?

3. What are the characteristics of scientific theories ?

4. What is a hypothesis in science ?

5. What is meant by scientific model ?

6. What is empiricism ?

7. Mention the important methods in statistics.

8. Name the important definitions of probability.

9. Define a sample.

10. Distinguish between primary and secondary data.

11. State the important advantages of diagramatic representation of data.   (10×1=10)

PART – B

Answer **any 6** questions. Weightage **2 each.**

12. "Science is a human activity". Explain.

13. Explain the different disciplines of science.

14. Explain the term auxiliary hypothesis.

15. Distinguish between corroboration and falsification of a hypothesis.

16. Distinguish between Type I and Type II errors.

17. Explain the role of non experimental research in science.

18. What are the limitations of models in science ?

19. What is operations research ? Mention any four topics in operations research.

20. What are the important bases of classification of data ? Give one example each.

(6×2=12)

PART – C

Answer **any two** questions. Weightage **4 each.**

21. Discuss the importance of models in scientific study.

22. Discuss the important definitions of statistics.

23. What is meant by statistical quality control ? Discuss its uses and limitations.

24. Discuss the important methods of collecting primary data. What are the major sources of secondary data ?

(2×4=8)

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