

M 2523

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 UI Ulama Degree (CCSS – Reg./Supple./Improv.) Examination,
November 2012

CORE COURSE IN STATISTICS

1B01 STA : Methodology and Perspectives of Statistics

Time : 3 Hours

Max. Weight : 30

Instructions : Use of calculator and Statistical tables permitted.

PART – A

Answer any 10 questions :

(Weight : 1 each)

1. What is the classical approach to science ?
2. Mention the functions of science.
3. What is a pseudo science ?
4. Outline the falsification approach in science.
5. What is a hypothesis ?
6. What is eureka intuition ?
7. What is sampling bias ?
8. Mention five important distributions used in statistics.
9. What is statistical inference ?
10. Define crude death rate.
11. Mention the principles of experimental design.

(10×1=10)

P.T.O.



PART – B

Answer any 6 questions :

(Weight : 2 each)

12. Discuss the term scientific statement.
13. How the game of chess resembles human life ?
14. "Scientific statements are testable". Explain.
15. Discuss serendipity in science.
16. "Scientific statements are reproducible". Explain.
17. What are type I and type II errors in testing hypothesis ?
18. Discuss the role of control group in scientific experiment.
19. Discuss statistical quality control.
20. Give a short history of the development of probability theory. (6×2=12)

PART – C

Answer any 2 questions :

(Weight : 4 each)

21. What are the strength and limitations of models in science ?
22. Discuss the important functions of statistics.
23. What are the characteristics of statistics as data ? Discuss.
24. Discuss the important methods of collecting primary data. (2×4=8)