Q. Write answers for questions below. (20 marks each – Word limit – 500)

A. Explain the importance of statistics. Discuss the merits of sampling over census.

B. Explain the terms: class limits, class boundaries, frequency, class width, frequency density relative frequencies.

C. Explain the difference between permutation and combination.

D. Write a detailed note on Statistical Population.

E. What is a Census Method? Explain the limitations of Census Method.

Q. Write answers for questions below. (20 marks each – Word limit – 500)

A. Three books are recommended for the courses in Statistics, five for the course in Mathematics while four for Ecology. A student can put his demand for a book from the above books. How many choices does he have?

B. Distinguish between deterministic and non-deterministic experiments.

C. Explain the concept of pseudo-random numbers. How they are generated? Explain the use of computers in simulation.

D. Write a detailed note on Modern axiomatic approach in probability theory

E. Distinguish between 1. Procedure of drawing model sample from discrete uniform distribution; and 2. Procedure of drawing model sample from binomial distribution