



12. The average population of a town in a year was 200000. In the year, 8000 live births occurred in the town. Find the CBR.
13. Explain the functions of NSSO.
14. Explain in detail, different types of Annuities.
15. Describe different laws of mortality.

**PART – C
(Essay)**

Answer **any four** questions. **Each** question carries **4** marks.

16. Explain various fertility rates.
17. Define effective rate and nominal rate. Also derive the relation between them.
18. Explain the role of CSO and NSSO in the national official system.
19. Define Vital statistics. What are the sources of vital statistics ?
20. Describe the uses of life table.
21. Describe the method of construction of mortality table.

**PART – D
(Long Essay)**

Answer **any two** questions. **Each** question carries **6** marks.

22. Compute crude and standardized death rates for the local population from the following data and compare them with crude death rate of standard population.

Age in group	Standard population	Deaths	Local population	Deaths
0 – 10	600	18	400	16
10 – 20	1000	5	1500	6
20 – 60	3000	24	2400	24
60 – 100	400	20	700	21

23. Explain various components of life table.
24. Explain the principle methods used for the construction of abridged life table.
25. What are the different types of rate of interest ? And explain the relation between these rate of interest.



Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS-OBE – Regular) Examination, April 2022
(2019 Admission)
CORE COURSE IN STATISTICS
Discipline Specific Elective
6B13ASTA – Applied Statistics**

Time : 3 Hours

Max. Marks : 48

**PART – A
(Short Answer)**

Answer **all** questions. **Each** question carries **1** mark.

1. What is an effective rate of interest ?
2. Define abridged life table.
3. Define the rate of vital event.
4. Who is the founder of ISI, Kolkata ?
5. Define force of mortality.
6. Define infant mortality rate.

**PART – B
(Short Essay)**

Answer **any seven** questions. **Each** question carries **2** marks.

7. Explain the method of computing crude birth rate and age specific fertility rate.
8. Explain the different types of standardization of vital rates.
9. Write a short note on ICMR.
10. Define gross reproduction rate.
11. Explain the uses vital statistics.