

Total number of printed pages-3

34 (2) RMBI 2.5

2021

(Held in 2022)

**RESEARCH METHODOLOGY AND
BIostatISTICS**

Full Marks : 80

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

1. Short Answer Type Questions : 2×10=20
- (a) Define research methodology.
 - (b) What is quantitative research ?
 - (c) What do you understand by sampling design ?
 - (d) Define scaling.
 - (e) What do you mean by sampling error ?
 - (f) Name *two* processing operations.
 - (g) What is Type I error ?

Contd.

- (h) What is biostatistics?
- (i) Name *two* probabilistic sampling technique.
- (j) Write *one* application of computer in research.

2. Short Essay Type Questions : **(any eight)**
5×8=40

- (i) Write a short note on 'need for research design'.
- (ii) Describe the research design in case of hypothesis testing studies.
- (iii) Write a note on 'schedule method' of data collection.
- (iv) State the reasons why sampling is used in the context of research studies.
- (v) What is hypothesis? Explain.
- (vi) What is ANCOVA technique? Give example.
- (vii) What is normal probability curve? Describe briefly.
- (viii) What are the different types of measurement scales? Explain briefly.

- (ix) What do you mean by measures of Central Tendency? Define mean, median and mode.

- (x) Calculate median from the following data :

Weight : 10 20 30 40 50 60 70

Frequency : 4 7 12 15 13 5 4

3. Essay Type Questions : **(any two)**

10×2=20

- (i) What are the different types of research design? Explain.
- (ii) Write a note on 'types of analysis'.
- (iii) Write down the different types of sampling techniques.
- (iv) Explain briefly :
 - (a) Cumulative frequency curve
 - (b) Power of hypothesis test.