

Register No:

Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

EIGHTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION(R), MAY 2024**(2020 SCHEME)**

Course Code : 20IMCAT406
Course Name : Research Methodology
Max. Marks : 60

Duration:3 Hours**PART A***(Answer all questions. Each question carries 3 marks)*

1. List out any four objectives of research.
2. Write a short note on hypothesis-testing.
3. Illustrate and explain Completely Randomized (C.R) Design.
4. Describe the three methods of research design.
5. How is primary data collected through schedules?
6. Differentiate primary and secondary data with an example.
7. Why is tabulation important? How would you justify its significance?
8. Write a short note on measures of dispersion.
9. Write a short note on popular report.
10. Why is interpretation necessary in the research process? Explain in detail.

PART B*(Answer one full question from each module, each question carries 6 marks)***MODULE I**

11. Write a short note on 6
 a) Quantitative approach vs Qualitative approach
 b) Significance of research

OR

12. "Empirical research in India in particular creates many problems for the researchers". State the 6
 problems faced by such researchers.

MODULE II

13. Write a comprehensive note on: 6
 (a) Necessity of defining a research problem
 (b) Experience Survey
 (c) Pilot Survey.

OR

14. Write a short note on: 6
 (a) Extraneous variables
 (b) Dependant and Independent variable
 (c) Cofounded Relationship.

MODULE III

15. Describe the selection of appropriate method for data collection in detail. 6

OR

16. Write a short note on secondary data and its collection methods. 6

MODULE IV

17. The mean and variance of seven observations are 8 and 16 respectively. If five of these are 2, 4, 10, 12 and 14, then find the remaining two observations. 6

OR

18. For 5 pairs of observations the following results are obtained $\sum X=15$, $\sum Y=25$, $\sum X^2 =55$, $\sum Y^2 =135$, $\sum XY=83$. Find the equation of the lines of regression and estimate the value of X on the first line when $Y=12$ and value of Y on the second line if $X=8$. 6

MODULE V

19. Describe in detail the layout of a research report. 6

OR

20. Why is peer review important in the process of writing a research report. How can researchers benefit from it? 6
