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GIET UNIVERSITY, GUNUPUR – 765022

M. Tech (Third Semester - Regular) Examinations, December - 2020

MOEBT 3023 / MOECH 3023 - Research Methodology

(Biotechnology and Chemical Engineering)

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A

(2 x 10 = 20 Marks)

Q.1. Answer *ALL* questions

- a. State the objectives of research
- b. Distinguish primary and secondary data
- c. What do you mean by sampling design?
- d. Define scaling
- e. What is regression?
- f. What are parametric tests? State its purpose
- g. What do you mean by multivariate analysis?
- h. Write a note on research report
- i. Explain the concept of excellence
- j. What is ethics in science?

PART – B (6 x 5 = 30 Marks)

Answer *ANY FIVE* questions

Marks

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|---|-----|
| 2. What is the necessity of defining a research problem? Explain with suitable example. | (6) |
| 3. Explain the different types of Research design. | (6) |
| 4. Define hypothesis. Explain the procedure for testing hypothesis | (6) |
| 5. Write a note on forecasting techniques | (6) |
| 6. Distinguish between questionnaire and interview schedule | (6) |
| 7. Explain the Bivariate and multivariate statistical techniques in detail. | (6) |
| 8. Define the various steps involved in drafting a research report. | (6) |
| 9. Enumerate and explain about ethics in Research and ethical behaviour of research | (6) |

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