

Total No. of Questions : 8]

SEAT No. :

P4579

[Total No. of Pages : 2

[4860]-1049
M.E. (Civil) (WREE)
RESEARCH METHODOLOGY
(2013 Credit Pattern)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Answer any five questions.*
- 2) Figures to the right indicate full marks.*

- Q1)** a) Explain the techniques involved in defining a research problem. [5]
b) Distinguish between Research methods and Research methodology [5]
- Q2)** a) Discuss the need for writing a research proposal for a funding agency.[5]
b) Identify the ethical issues related to interpretation and reporting a research problem. [5]
- Q3)** a) Write a note on Brain Storming and Delphi method. [5]
b) Explain in brief various sampling techniques. [5]
- Q4)** a) Why should the data collected for research must be checked for reability, suitability and adequacy? [5]
b) Explain the importance of a good literature review. [5]
- Q5)** a) Write a note on Factor Analysis. [5]
b) Write a note on advantage and limitation of Simple Regression Analysis. [5]

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- Q6)** a) Discuss the important characteristics of Chi-Square test. [5]
b) Explain the centroid method of factor Analysis. [5]
- Q7)** a) Discuss the prerequisites for publishing the research in a journal paper. [5]
b) Write a note on "Patenting a research idea". [5]
- Q8)** Write a research proposal for a suitable research problem (any problem related to Civil engineering can be considered) to a funding agency with reference to the following terms: Title, introduction, origin of the problem, expected outcome, literature review, significance of the study in the context of current status, objectives, methodology, year wise plan. [10]

