SEAT No. :

P4743

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M.E. (Structures)
RESEARCH METHODOLOGY
(2013 Pattern)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

1)   *Solve any five questions.*

2)   *Figures to right indicate full marks.*

Q1) a)   Write in detail about the various errors in selecting a research problem.
[5]

    b)   Discuss the general objectives of research funding agency.   **[5]**

Q2) a)   Discuss in brief the general format for a research proposal.   **[5]**

    b)   Identify the ethical issues related to interpretation and' reporting a research problem.   **[5]**

Q3) a)   Explain in detail the objectives of literature review.   **[5]**

    b)   Explain characteristics of hypothesis.   **[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)   Explain any one method of Factor Analysis.   **[5]**

    b)   Write a note on advantage and limitation of Simple Regression Analysis.   **[5]**

Q6) a)   Discuss the important characteristics of Chi-Square test.   **[5]**

    b)   Enlist different clustering methods and explain any one in detail. **[5]**

P.T.O.

Q7) a) Discuss the importance of research report writing. **[5]**

b) What does it mean to "license a patent" and why is it done? **[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]**

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