SEAT No.:	
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P4016

[5255]-513

M.E. (Civil - Structural Engineering) RESEARCH METHODOLOGY TREATMENT (2013 Pattern) (Semester - I) (501404)

Time: 3 Hours] [Max. Ma		:50	
	ucti 1) 2)	ons to the candidates: Solve any five questions. Figures to the right indicate full marks.	
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Q1)	a)	Explain the points to be considered while developing a research proband hypothesis.	lem [5]
	b)	Explain the Research process in a flowchart.	[5]
Q2)	a)	Discuss in brief the need of a research report.	[5]
	b)	Discuss the three tests of sound measurement: Test of validity, reliabi and practicality.	ility [5]
Q 3)	a)	Explain in detail the secondary sources of data and explain its limitation	ons. [5]
	b)	What is Hypothesis? Explain Type I and type II errors.	[5]
Q4)	a)	"Interpretation is a fundamental component of Research proces Explain.	ss". [5]
	b)	Explain the importance of a good literature review.	[5]
Q5)	a)	Mention the methods of Factor Analysis. Explain in detail any one.	[5]
	b)	Write a note on advantage and limitation of Regression Analysis.	[5]
Q 6)	a)	Explain in detail Multicollinearity.	[5]
	b)	Enlist different hypothesis testing methods. Explain any two.	[5]

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Q7) a) "Research report writing is and art and science as well". Give your opinion on this statement considering the important components of report writing.[5]

b) State the importance of references in scientific research. [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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