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Question Paper Code: 52963

M.E. DEGREE EXAMINATION, JUNE 2016

Elective

Structural Engineering

15PSE601 – RESEARCH METHODOLOGY

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 20 = 100 Marks)

1. (a) (i) What do you mean by research? Discuss about different types of research. (10)
- (ii) What is a research problem? State the components of research problem. (10)

Or

- (b) Define review of literature. Discuss its purposes, uses and methods of writing a literature review. (20)
2. (a) Define research design. Briefly explain about the various types of research designs and the factors influencing the research design. (20)

Or

- (b) What do you mean by 'Sample Design'? What points should be taken into consideration by a researcher in sample design for any research project? (20)
3. (a) Discuss about the various techniques used for data collection. (20)

Or

- (b) What is testing of hypothesis? Explain how it is useful for illustrating a research problem with two examples. (20)
4. (a) Enumerate briefly the mechanism of report writing and underline the precaution to be taken at the time of report writing. (20)

Or

- (b) Explain the different types of research reports. (20)
5. (a) Identify and explain any six ethical considerations in research. Discuss the possible consequences of violating research ethics. (20)

Or

- (b) Write an elaborate note on plagiarism and citation basics. (20)
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