Code No: 115EM

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, November/December - 2016
SOFTWARE ENGINEERING
(Common to CSE, IT)

Time: 3 hours **Max. Marks: 75**

Note: This question paper contains two parts A and B
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

1.a) What is legacy software? Explain [2]
b) What are the advantages of unified process? [3]
c) Write the purpose of context model [2]
d) What is the significance of feasibility study? [3]
e) What is the use of interface analysis? Explain [2]
f) What do you mean by software design quality? Explain. [3]
g) Differentiate between verification and validation [2]
h) What is regression testing? Give example [3]
i) Define software reliability. [2]
j) What is the importance of software reviews? [3]

PART - B

(50 Marks)

2.a) Discuss about the changing nature of software
b) Explain spiral model with its merits and demerits [5+5]

OR

3.a) Discuss in brief about different software myths and their consequences
b) Explain CMMI model with a neat sketch [5+5]

4.a) Differentiate between functional and non-functional requirements
b) List and explain the object models in brief. [5+5]

OR

5.a) What are the activities of requirements elicitation and analysis? Explain
b) Discuss about different structured methods used in software development [5+5]

6.a) Explain the process of mapping dataflow into software architecture
b) List the golden rules of user interface design. [5+5]

OR

7.a) Discuss about pattern based software design in detail
b) Define and explain about different types of cohesion [5+5]

8.a) Describe the framework for software product metrics
b) Differentiate between Black box and White box testing [5+5]

OR

9.a) What are the metrics used for software maintenance? Discuss.
b) Briefly discuss about Integration testing strategies. [5+5]

10.a) Differentiate between Reactive Vs Proactive risk strategies.
b) What is the significance formal technical review? Explain. [5+5]

OR

11.a) Write a detailed note on ISO 9000 quality standards
b) What types of risks occur during software development? Discuss. [5+5]

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