

R13

Code No: 115EM

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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