Code No: RT32051





III B. Tech II Semester Supplementary Examinations, November-2018 SOFTWARE ENGINEERING

(Computer Science and Engineering) Time: 3 hours Max. Marks: 70 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in **Part-A** is compulsory 3. Answer any THREE Questions from Part-B **PART-A** Distinguish between software process and project. [4M] 1. a) What are the characteristics of good SRS document? b) [3M] List the principles of a software design. [4M] c) Will exhaustive testing guarantee that the program is 100% correct? Explain. [3M] d) List a few process and project metrics. [4M] e) f) Define maintenance. What are the types of software maintenance? [4M] **PART-B** Explain why incremental development is the most effective approach for 2. [8M] a) developing business software systems. Why is this model less appropriate for realtime systems engineering? Explain briefly Software development lifecycle. [8M] b) 3. What is the goal of requirements analysis phase? Give reasons why the requirements a) [8M] analysis phase is a difficult one. Identify and briefly describe four types of requirement that may be defined for a b) [8M] computer based system. 4. Explain about object oriented analysis and design principle. [8M] a) What are the design principles? Explain in detail. [8M] b) 5. Explain integration testing process with an example. a) [8M] What are the benefits of involving users in release testing at an early stage in the b) [8M] testing process? Are there disadvantages in user involvement? 6. Discuss about COCOMO II model for software estimation. [8M] a) Discuss about the software metrics for small organizations. b) [8M] 7. What is reengineering? Explain in detail. [8M] a) Explain why design metrics are, by themselves, an inadequate method of predicting b) [8M] design quality.

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