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R18 Code No: 155DB JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2021 SOFTWARE ENGINEERING (Common to CSE, IT) Max. Marks: 75 Time: 3 Hours Answer any five questions All questions carry equal marks Explain Software development process models. Explain about evaluation of software engineering methodologies. b) What is the goal of requirements analysis phase? Give reasons why the requirements 2.a) analysis phase is a difficult one. Identify and briefly describe four types of requirement that may be defined for a b) [8+7]computer based system. What are the design principles of a good software design? Explain, What is black box testing? Is it necessary to perform this? Explain various test 4. [15] activities. Discuss briefly about Pro-active and Re-active Risk strategies in detail. 5.a) Explain about Software risks in detail. b) How system modeling is achieved using UML? Explain with a suitable example. 6.a) How we perform design evaluation? Explain it with suitable example. [8+7]b) What is a change? How it can be incorporated in the software. 7.a) What is the difference between verification and validation? Explain with an example. b) What is software maintenance? How to control maintenance cost. 8.a) Define software. List and explain about the elements of a software process. [8+7]