Code No: 155DB

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2021
SOFTWARE ENGINEERING
(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Explain Software development process models.
 b) Explain about evaluation of software engineering methodologies. [7+8]

2.a) What is the goal of requirements analysis phase? Give reasons why the requirements analysis phase is a difficult one.
 b) Identify and briefly describe four types of requirement that may be defined for a computer based system. [8+7]

3. What are the design principles of a good software design? Explain. [15]

4. What is black box testing? Is it necessary to perform this? Explain various test activities. [15]

5.a) Discuss briefly about Pro-active and Re-active Risk strategies in detail.
 b) Explain about Software risks in detail. [8+7]

6.a) How system modeling is achieved using UML? Explain with a suitable example.
 b) How we perform design evaluation? Explain it with suitable example. [8+7]

7.a) What is a change? How it can be incorporated in the software.
 b) What is the difference between verification and validation? Explain with an example. [8+7]

8.a) What is software maintenance? How to control maintenance cost.
 b) Define software. List and explain about the elements of a software process. [8+7]

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