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
- - -

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]

---ooOoo---