**R19**

**Code No: 863AC**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**MCA III Semester Examinations, February - 2021**
**SOFTWARE ENGINEERING**

Time: 2 hours                                                    Max. Marks: 75

**Answer any five questions**
**All questions carry equal marks**
**- - -**

1.      Define software engineering. Explain software engineering as a layered technology.
                                                                        [15]

2.a)    Discuss the manager's myths and corresponding realities.
  b)    What are the various phases in unified process?              [7+8]

3.      Discuss the importance of software requirement document and its structure with an example scenario.                                    [15]

4.a)    Write about requirement prioritization.
  b)    Demonstrate the usage of behavior models in requirement engineering.    [7+8]

5.a)    What is the intent of a design pattern? Explain with an illustration.
  b)    Discuss the quality attributes for software design.          [7+8]

6.a)    Describe the conceptual model of UML.
  b)    Which UML diagram is considered in structural modeling of a system? Justify your answer.                                                   [7+8]

7.a)    Explain Halstead metrics applied to testing.
  b)    How to measure software specification quality?               [8+7]

8.a)    What is the role of formal technical reviews in quality assurance? Discuss.
  b)    Give a note on ISO 9000 quality standards.                   [7+8]


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