Code No: 863AC

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

Time: 2 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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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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