

**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**

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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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