

**R19**

Code No: 863AC

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA III Semester Examinations, July/August - 2021**

**SOFTWARE ENGINEERING**

**Time: 3 Hours**

**Max.Marks:75**

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

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- 1.a) With a neat sketch, explain incremental model of software process.  
b) What is Unified Process? What are the work products of Unified Process? Explain. [7+8]
- 2.a) What is the purpose of Process assessment? Explain about Process Pattern and write the template used to describe it.  
b) Discuss in brief about evolutionary process models. [7+8]
- 3.a) What is software requirement? Explain about system requirements in detail.  
b) How feasibility studies are important in requirements engineering process? Explain. [7+8]
- 4.a) In which circumstances, would you recommend using structured methods for system development? Discuss.  
b) How requirements validation is done? Explain. [7+8]
- 5.a) Explain the fundamental concepts of software design.  
b) What are the common properties and uses of class diagram? Contrast object diagram with class diagram. [7+8]
- 6.a) With a neat sketch, explain the significance of sequence and collaboration diagrams. Give suitable examples.  
b) What are the contents and common uses of component diagrams? Explain. [7+8]
- 7.a) Describe about various software quality factors and their significance.  
b) Compare Black box testing with White box testing and give examples for each. [7+8]
- 8.a) What are the principles of risk management? Explain.  
b) Discuss about the ISO 9000 quality standards. [7+8]

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