

R19**Code No:863AC****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, March/April - 2022****SOFTWARE ENGINEERING****Time: 3 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

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- 1.a) What is Software? Explain software myths.
b) Briefly discuss about capability maturity model integration (CMMI).
c) Write short notes on process patterns and process assessment. [5+5+5]
- 2.a) Explain Various Incremental process models.
b) Compare and Contrast evolutionary process models and unified process models. [7+8]
- 3.a) Design and analyze the software requirements document.
b) Discuss in detail user requirements and system requirements.
c) Write short note on requirements elicitation process. [5+5+5]
- 4.a) Write any two requirements of engineering process.
b) Describe behavioral models with neat sketch.
c) Explain about data models. [5+5+5]
- 5.a) What are different design concepts in design engineering? Explain in it.
b) Elaborate models of UML. [8+7]
- 6.a) What is the function of collaboration diagram in design engineering? Discuss classdiagram with an example.
b) How sequence diagrams is helpful in architectural design. [10+5]
- 7.a) Define testing. Give information on strategic approach to software testing.
b) Explain the following:
i) Validation testing ii) System testing. [8+7]
- 8.a) Justify how metrics used in software quality.
b) What are the steps involved to overcome software risks?
c) Brieflydiscuss about qualitymanagement software engineering. [5+5+5]

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