

Code No:872AE

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA II Semester Examinations, March - 2023****SOFTWARE ENGINEERING****Time: 3 Hours****Max.Marks:75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) Explain about team software process? [5]
- b) What are use cases, explain with examples? [5]
- c) Distinguish between sequence and collaboration diagrams with examples? [5]
- d) When are we done testing? [5]
- e) What are the direct and indirect measures of a software product? What is the difference between direct and indirect measures? [5]

**PART – B****(50 Marks)**

- 2.a) Enumerate the generic framework activities used during the development of software.
  - b) How software can be developed using spiral model? [5+5]
- OR**
- 3.a) Discuss the different approaches to software process assessment.
  - b) Elaborate on the phases of unified process model. [5+5]
- 4.a) Mention the alternatives to natural language specifications of requirements.
  - b) Briefly describe the process of requirements engineering. [5+5]
- OR**
- 5.a) Write notes on ethnography.
  - b) Discuss on the requirements validation techniques. [5+5]
- 6.a) Illustrate the sequence diagram with example.
  - b) Distinguish among Data Structures, Databases, and the Data Warehouse. [5+5]
- OR**
- 7.a) Illustrate the use-case and component diagrams with example.
  - b) What principles are applicable to data design? [5+5]

- 8.a) Explain the categories of metrics used for testing.  
b) Compare and contrast alpha testing and beta testing. [5+5]
- OR**
- 9.a) Discuss on system testing.  
b) Explain the metrics used to assess the complexity of architectural models. [5+5]
- 10.a) Describe the measures of software quality.  
b) Describe the difference between risk components and risk drivers. [5+5]
- OR**
- 11.a) What types of risks that we encounter as the software is built?  
b) List the ISO 9000 quality standards. [5+5]

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