JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, September/October - 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 Myth? Explain different types of software myths and their consequences.
  b) Describe about the Capability Maturity Model Integration (CMMI) in detail. [7+8]

2.a) Explain the Spiral model with a neat sketch. What are its advantages and disadvantages?
  b) What is Unified Process? Explain the phases of Unified Process. [8+7]

3.a) What are functional requirements? Explain them with suitable examples.
  b) Differentiate between data models and object models with examples. [7+8]

4.a) What is Requirements elicitation? What are the activities carried out during requirements elicitation? Discuss.
  b) What is Software Requirements Specification? Discuss the role of interface specification in SRS document. [7+8]

5. Define Software Architecture and explain about the following architectural models with its merits and demerits.
   a) Call-Return Architecture
   b) MVC Architecture
   c) Pipe and Filter Architecture. [5+5+5]

6.a) Differentiate between Component and Deployment diagrams with suitable sketches.
  b) Explain the general design process. How do you measure the design quality? Explain.[8+7]

7.a) Describe the art of debugging and its purpose, advantages and disadvantages.
  b) What are the metrics used for software maintenance? Explain. [8+7]

8.a) Explain ISO 9000 Quality standards and their applications to software development.
  b) What is RMMM? Write the structure of RMMM plan and discuss. [7+8]

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