Code No.: AI502PC   R20   H.T.No. [ ][8][R][ ][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - June- 2024
SOFTWARE ENGINEERING
(Common for CSC, CSD, CSM)

[Time: 3 Hours]   [Max. Marks: 70]

Note: This question paper contains two parts A and B.
   Part A is compulsory which carries 20 marks. Answer all questions in Part A.
   Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A   (20 Marks)

1. a) Explain evolving role of software.   [2M]
   b) What is incremental process model?   [2M]
   c) List of software system requirements.   [2M]
   d) What is meant by requirements management?   [2M]
   e) Differentiate between Data flow diagram and State transition diagram. [2M]
   f) List the principles of a software design.   [2M]
   g) Define Black-box testing strategy?   [2M]
   h) Why testing is important with respect to software?   [2M]
   i) Write short notes on RMMM.   [2M]
   j) Distinguish between Reactive and Proactive risk management. [2M]

PART-B   (50 Marks)

2. Discuss about a process framework of software engineering.   [10M]
                              OR
3. Explain various phases in incremental process model.   [10M]

4. Discuss about the Functional and Non-Functional requirements. [10M]
                              OR
5. Explain about Object Models in detail.   [10M]

6. Discuss about fundamental concepts of design process.   [10M]
                              OR
7. Summarize the architectural styles and patterns.   [10M]

8. Define software testing? Explain clearly about software testing. [10M]
                              OR
9. Explain the need of software metrics and describe various metrics. [10M]

10. Discuss Reactive and Proactive risk strategies.   [10M]
                              OR
11. Explain the software quality assurance.   [10M]

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