Total No. of Questions : 8]

P9112

SEAT No. :

[Total No. of Pages : 2

[6179]-237
S.E. (Computer Engineering) (Artificial Intellignce & Data Science Engineering)
SOFTWARE ENGINEERING
(2019 Pattern) (Semester - IV) (210253)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:
1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
2) Neat diagrams must be drawn wherever necessary.
3) Assume suitable data, if necessary.

Q1) a) Discuss with suitable diagram three major categories of software project resources? **[8]**

b) What is Estimation with Use Cases? Explain Estimation Using Use Case points with the help of an Example. **[10]**

OR

Q2) a) What are the basic principles of software project scheduling. Explain different tasks of project scheduling. **[8]**

b) Discuss Empirical Estimation Models. Explain Constructive Cost Model for project estimation with suitable example. **[10]**

Q3) a) With the help of diagram explain how to translate the requirements model into the design model. **[8]**

b) Explain dimensions of design model with the help of diagram. **[9]**

OR

Q4) a) What is software Architecture? Why Architecture is important? What is the use of Architecture Decision Description Template? **[9]**

b) Discuss component level and deployment level design elements. **[8]**

P.T.O.

Q5) a) Explain Risk and management concern with the help of diagram. [8]

b) Discuss any two of the following. [10]

    i) Risk Refinement

    ii) Risk Mitigation

    iii) Risk Management

<div align="center">OR</div>

Q6) a) What are the advantages of SCM Repository? Explain functions performed by SCM Repository. [8]

b) Write short note on any two of the following [10]

    i) Change control mechanism in SCM

    ii) SCM Process

    iii) RMMM Plan

Q7) a) Define testing? Explain graph based functional testing techniques with suitable graph notation diagram. [9]

b) Discuss any two of the following. [8]

    i) User Acceptance Testing

    ii) Difference between Verification and validation Testing

    iii) Software Testing Life Cycle

<div align="center">OR</div>

Q8) a) What is system testing? Explain any three types system testing. [8]

b) Explain with suitable diagram Drivers and stubs in unit test environment. Disucss with suitable diagrams top-up and bottom-up integration in integration testing. [9]

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