P2952

[4958]-190

T.E.(Computer Engineering)
SOFTWARE ENGINEERING
(2008 Course) (310253)(Semester-II)

Time :3Hours]
[Max. Marks : 100

Instructions to the candidates:

1) *Answers to the two sections should be written in separate answer books.*
2) *Answer three questions from section I and three questions from section II*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Figures to the right side indicate full marks.*
5) *Assume suitable data if necessary.*

SECTION-I

Q1) a) Give the importance of software engineering and process model. Explain the general process framework. **[6]**

b) When do you apply RAD model to software development? Describe with its activities. **[6]**

c) What is prototyping? **[4]**

OR

Q2) a) Explain the Extreme programming. **[6]**

b) How do you overcome the disadvantages of waterfall model? Explain with a process model. **[6]**

c) What do you mean by personal software process? **[4]**

Q3) a) Explain the creation of DFD up to level 2 with an example. **[8]**

b) Explain the requirements engineering tasks in brief. **[8]**

OR

Q4) a) How do you model the flow of a process? Explain with an example.**[8]**

b) What are the elements of analysis model? Explain in brief. **[8]**

Q5) a) Describe the concepts of modularity and refactoring in design. **[8]**

    b)   Create the class diagram for design of an online book store system. **[6]**

    c)   State the steps of user interface design.   **[4]**

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

Q6) a)   Explain the user interface design rules.   **[8]**

    b)   How do you model the software architecture using context diagram?**[6]**

    c)   What is a layered architecture?   **[4]**

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SECTION-II

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Q7) a)   What is the role of unit testing in software testing? Give the purpose of stubs and drivers in unit testing.   **[8]**

    b)   Explain any two system testing methods.   **[6]**

    c)   State the advantages of regression testing.   **[4]**

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

Q8) a)   Give the steps of the basis path testing to derive test cases with an example.   **[8]**

    b)   Explain the different debugging tactics.   **[6]**

    c)   How do you derive test cases for condition testing?   **[4]**

Q9) a)   What is the role of estimation in project management? Explain any one estimation technique with an example.   **[8]**

    b)   Describe the different types of team structures in project management.**[8]**

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

Q10) a)   Explain the quality factors in software development.   **[8]**

    b)   Explain the role and process of formal technical reviews.   **[8]**

Q11) a)   How risk assessment is carried out? How it is used in risk analysis? **[8]**

    b)   Explain the techniques used in project scheduling   **[8]**

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

Q12) a)   Explain McCall's quality factors.   **[8]**

    b)   Explain the software configuration management process.   **[8]**

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