P594

DEC-2013

[4461] - 41

S.Y. M.C.A. (Engineering) (Semester - IV)
SOFTWARE ENGINEERING
(2008 Course)

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

Instructions to the candidates:

1)   Figures to the right indicates full marks.
2)   Answers to the two sections should be written in two separate answer books.
3)   From Section - I solve (Q1 or Q2) and (Q3 or Q4) and (Q5 or Q6).
4)   From Section - II solve (Q7 or Q8) and (Q9 or Q10) and (Q11 or Q12).
5)   Make suitable assumptions wherever appropriate and relevant.

SECTION - I

Q1) a) Explain incremental model in detail with a suitable diagram.   **[6]**

b) Differentiate between Team process model and Personal process model.   **[6]**

OR

Q2) a) Explain the different phases of unified process.   **[6]**

b) Explain software process framework with a well labeled diagram.   **[6]**

Q3) a) Explain any three deployment and planning practices.   **[6]**

b) Differentiate between process and product Engineering.   **[5]**

OR

Q4) a) Explain the Testing principles in detail.   **[6]**

b) Explain the concept of system modeling in detail.   **[5]**

Q5) a) Draw an activity diagram for Airline reservation system.   **[6]**

b) Write short notes on :   **[6]**

i)   Cardinality and modality.

ii) Object oriented analysis.

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Q6) a) What is requirement Engineering? Explain in brief various functions of Requirements Engg. **[6]**

b) Explain flow oriented modeling. **[6]**

SECTION - II

Q7) a) Differentiate between component level Design & Deployment level design elements. **[6]**

b) Explain the steps of User Interface Design. **[6]**

OR

Q8) a) What is architecture? Explain Data flow architecture and layered architecture. **[6]**

b) Explain in brief golden rules of User Interface. **[6]**

Q9) a) Differentiate between white box testing and black box testing with a suitable example for each. **[7]**

b) Explain the concept of integration testing in detail. **[4]**

OR

Q10) a) Explain the process of debugging in testing. **[5]**

b) Explain the steps for deriving the test cases. **[6]**

Q11) a) What is software quality? Explain McCall's quality factors. **[6]**

b) Define the terms : **[6]**

i) Cohesion metrics.

ii) Coupling metrics.

OR

Q12) a) Explain the concept of object oriented Design metrics. **[6]**

b) Define the terms : **[6]**

i) Measure, metrics and indicator.

ii) ISO 9126 quality factor.

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