

Total No. of Questions : 12]

NOV-DEC-2012

SEAT No. :

P834

[Total No. of Pages : 2

[4263] - 354

T.E. (I.T.)

SOFTWARE ENGINEERING

(2008 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answers to the two sections should be written in separate books.
- 2) Neat diagrams must be drawn wherever necessary.

**SECTION - I**

**Q1)** a) Define software engineering. What are the software characteristics? What are the various categories of software? [10]

b) Explain in detail Spiral model with its merits/demerits. [8]

OR

**Q2)** a) What is software process model? Explain the incremental process model. [8]

b) Explain in detail process pattern. [6]

c) What are the management myths? [4]

**Q3)** a) Explain in detail requirement engineering task. [8]

b) Explain domain analysis. Discuss in short : Data objects, cardinality and modality in data models. [8]

OR

**Q4)** a) Draw E-R diagram for relationship between customer and banking system. [6]

b) What are the characteristics that requirement must meet? [6]

c) Describe two real time situation in which the customer and the end-user is same. Describe two situation in which they are different. [4]

**Q5)** a) What is software architecture? Give the importance of software architecture. What is structural partitioning? [8]

b) What is information hiding? What is stepwise refinement? What is refactoring? [8]

OR

**Q6)** a) What are the design quality guidelines? [8]

b) What are the interface design principles and guidelines? [8]

P.T.O.



Total No. of Questions : 12]

**SECTION - II**

- Q7)** a) What is the objective of white box testing? [2]  
b) What is cyclomatic complexity? Explain with a suitable example. [8]  
c) What is integration testing? What is bottom up integration testing? Explain with appropriate figure. [8]

OR

- Q8)** a) What is the objective of black box? [2]  
b) What is verification testing and validation testing? Explain in brief. [8]  
c) What is system testing? Explain in detail. [8]

- Q9)** a) What is the objective of software scope and software project planning? Explain in brief. [4]  
b) What is the relevance of four P s in project planning? Explain in detail. [12]

OR

- Q10)** a) What are the ways in which software estimation can be classified? Elaborate. [6]  
b) What is FPA? Explain in brief. [10]

- Q11)** a) What are the types of risks? Explain in brief. [6]  
b) What is risk mitigation, risk monitoring, risk management? Explain in brief. [10]

OR

- Q12)** a) What is the objective of SCM? [4]  
b) What are the software quality factors? Explain any four. [12]

XXXXX