

Total No. of Questions : 10]

SEAT No. :

P3226

[Total No. of Pages : 2

[5354]-682

B.E. (Computer Engineering) (End Sem)
SOFTWARE DESIGN METHODOLOGIES AND TESTING
(2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Assume suitable data, if necessary.*

- Q1)** a) Explain the concept of object oriented analysis and designing and its role in modern application software development [5]
- b) Explain use case actor. Who are primary and secondary actors? Explain with example. [5]

OR

- Q2)** a) Explain the significance of static modeling? Give the UML notations for Representing class in class diagram. [5]
- b) What is software Design? What is the major classification of software design based on abstraction level? [5]
- Q3)** a) Explain multiple client multiple service architectural pattern with a suitable example. [5]
- b) Explain factory pattern. Describe its intent, motivation and implementation with suitable example. [5]

OR

- Q4)** a) Explain location transparency and platform transparency in service oriented architecture. [5]
- b) Explain the Iterator pattern with suitable example and class diagram. [5]

P.T.O.

- Q5)** a) What is defect management? Discuss the generic steps in defect management process? [8]
b) Explain V test model with suitable block diagram? [8]

OR

- Q6)** a) What is validation ? Explain various levels of validation? [8]
b) What are various principles of testing? [8]

- Q7)** a) Differentiate between alpha and beta testing? [6]
b) Explain graph based testing with example? [6]
c) What is security testing. Explain different types security testing. [6]

OR

- Q8)** a) What is performance testing. Explain the need of performance testing. [6]
b) What is equivalence partitioning? Explain with example. [6]
c) Write short note on test metrics. [6]

- Q.9)** a) Difference between functional and nonfunctional testing. [8]
b) Write a short note on GUI testing? [8]

OR

- Q.10)** a) What is mobile testing? Mention the challenges in mobile testing? [8]
b) Write short note on: [8]
i) JUnit
ii) Selenium

