Total No. of Questions : 10]

SEAT No. :

P1354

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[4858] - 1102

T.E. (Information Technology)

SOFTWARE ENGINEERING

(2012 Pattern)

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

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.***
2) ***Draw neat diagrams whenever necessary.***
3) ***Assume suitable data if necessary.***

Q1) a) Discuss practitioner's myths of software development. **[5]**

b) What formal techniques are available for assessing the software process? **[5]**

OR

Q2) a) What is spike solution in XP? **[5]**

b) Describe XP concepts of refactoring and pair programming in your own words. **[5]**

Q3) a) Why is it difficult to gain a closer understanding of what the customer wants? **[5]**

b) How to prioritize software requirements based on Kano Analysis? **[5]**

OR

Q4) a) Explain how an ATM machine is supposed to behave with the help of a state diagram. **[5]**

b) What new practices are appended to XP to create IXP? **[5]**

Q5) a) Discuss the characteristics of a good software design. **[8]**

b) What types of classes does the designer create? What is a well-formed design class? **[8]**

P.T.O.

OR

Q6) a) What is an architectural style? Explain in brief taxonomy of architectural styles. **[8]**

b) What are domain specific architectures? Distinguish between domains and product-lines. **[8]**

Q7) a) What are different categories of users? How do we learn what user wants from UI? **[8]**

b) Explain any four of Shneiderman's 8 golden rules of user interface design. **[8]**

OR

Q8) a) Perform a detailed task-analysis for - A Library Management System. **[8]**

b) Discuss use of mental models and metaphors in UI design. **[8]**

Q9) a) What is the goal of cleanroom testing? Discuss in brief the statistical use testing. How do we certify a software component in cleanroom testing? **[10]**

b) What is software configuration management repository? Discuss role and features of SCM repository. **[8]**

OR

Q10) Write short notes on ANY THREE : **[18]**

a) CASE tools.

b) Technology evolution.

c) Test driven development.

d) Model driven development.

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