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Total Number of Pages : 02

B.Tech.
PCIT4302

6th Semester Back Examination 2017-18
SOFTWARE ENGINEERING
BRANCH : IT, ITE
Time : 3 Hours
Max Marks : 70
Q.CODE : C339

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions : (2 x 10)**
- a) What is the difference between SRS document and design document?
 - b) What is the difference between process metrics and product metrics?
 - c) Write two advantages of using LOC.
 - d) Mention the formula to calculate Cyclomatic complexity of a program?
 - e) What is the difference between verification and validation?
 - f) What do you mean by legacy software product?
 - g) What is the need for regression testing?
 - h) What is the difference between SA/SD?
 - i) Difference between flow chart and structure chart.
 - j) Write down the difference between scrum and XP.
- Q2 a) What is the difference between a sequence diagram and a collaboration diagram? (5)**
- b) What do you understand by a metaphor in a user interface design? Is a metaphor based user interface design advantageous? Justify it. (5)**
- Q3 a) Draw the architecture of a CASE environment and explain how the different tools are integrated? (5)**
- b) Draw the schematic diagram to represent the Classical waterfall model in software development life cycle. (5)**
- Q4 a) What do you mean by software reliability and explain the six metrics to measure software reliability? (5)**
- b) Draw the use case and data flow diagram for a Restaurant system. The activities of the Restaurant system are listed below. (5)**
- Receive the customer food orders, Produce the customer ordered foods, Serve the customer with their ordered foods, Collect payment from customer, Store customer payment details.
- Q5 a) Draw the schematic diagram to represent RAD model in software development life cycle. (5)**
- b) What do you mean by software reliability and explain the six metrics to measure software reliability? (5)**

