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Total Number of Pages : 01

B.Tech
PCS3G001

3rd Semester Back Examination 2019-20

SOFTWARE ENGINEERING

BRANCH : CSE

Max Marks : 100

Time : 3 Hours

Q.CODE : HB941

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- a) What is user testing?
- b) What is design pattern?
- c) List all the four key features of testing in XP.
- d) What is product metrics?
- e) List the key states in software component analysis.
- f) What are the guidelines for testing?
- g) List all activities in an object-oriented design process.
- h) What are the fundamental activities of software engineering?
- i) What is Model Driven engineering?
- j) What is software maintenance?

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- a) Explain briefly software engineering ethics.
- b) Explain water fall model with a suitable diagram.
- c) Explain requirements engineering processes with suitable diagram.
- d) Explain Ethnography in detail.
- e) With the help of neat diagram, explain insulin pump control system.
- f) Discuss the implementation issues important in software engineering.
- g) List and Explain the factors affecting software pricing.
- h) Explain the COCOMO-II estimation model.
- i) Explain in detail plan driven development approach to software engineering.
- j) Explain development testing.
- k) Write a note on pair programming.
- l) Explain different types of software standards and mention their importance.

Part-III

Q3 Only Long Answer Type Questions (Answer Any Two out of Four) (16)

Draw the block diagram and explain the process of prototype development. What are the benefits of a prototype? Write briefly about throw away prototypes.

Q4 List and explain various COCOMO cost estimation models. (16)

Q5 Explain the practices involved in the extreme programming. (16)

Q6 Write the structure of the requirement document as suggested by IEEE standards. (16)