[6261]-58

S.E. (Information Technology)
SOFTWARE ENGINEERING
(2019 Pattern) (Semester- IV) (214454)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
2) *Figures to the right indicate full marks.*
3) *Neat diagrams must be drawn wherever necessary.*
4) *Assume Suitable data, if necessary.*

Q1) a) What is a component? Explain An Object-Oriented View of components with suitable example. **[9]**

  b) What is an architectural style? Explain different architectural style with suitable example. **[9]**

OR

Q2) a) What are the characteristics of a good design? Explain Software Quality Guidelines and Attributes of software design. **[9]**

  b) Explain design evaluation cycle. What are design issues we have to consider which designing user interface? **[9]**

Q3) a) What do you meant by Work Breakdown Structure? Explain representations of WBS with suitable examples. List advantages of WBS. **[8]**

  b) What is Critical Path Method (CPM)? Explain the components of CPM. Explain key steps in Critical Path Mehod using suitable example. **[9]**

OR

Q4) a) What is Project Management Spectrum? Explain the W5HH Principle. **[8]**

  b) What do you meant by Software measurement? Explain size & function-oriented metrics with suitable examples. **[9]**

P.T.O.

Q5) a) Define quality. What is Cost of Quality? Explain types of Cost of Quality in details. **[9]**

b) What is software testing? Why it is important? Explain Principles of Software Testing. **[9]**

OR

Q6) a) Compare Software Quality Assurance, Software Quality Control and Software testing. **[9]**

b) Explain defect management. Explain various stages of defect management process. **[9]**

Q7) a) What do meant by Software configuration? Define baseline. What is Software Configuration Objects? **[9]**

b) Explain test-driven development with neat diagram. **[8]**

OR

Q8) a) What is CASE workbench? Explain types of CASE workbenches. **[9]**

b) Explain software reuse. What are approaches of Reuse-based software engineering? What are benefits of software reuse? **[8]**

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