

Total No. of Questions : 8]

PC2834

SEAT No. :

[Total No. of Pages : 2

[6352]-58

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if required.

- Q1)** a) Explain the characteristics of a good design. Explain Software Quality Guidelines and Attributes of Software design. [9]
- b) Define a software component. Explain an Object-Oriented View of components with suitable example. [9]

OR

- Q2)** a) Explain the refinement and refactoring in software design. Compare refinement with abstraction. [9]
- b) What is an archetype? How do systems interoperate with one another? [9]

- Q3)** a) What do you mean by project initiation? Explain steps in project initiation in details. [9]
- b) What are the typical problems with I.T. cost estimates? [8]

OR

- Q4)** a) What are the categories of stakeholders? What are characteristics of effective project manager? [9]
- b) What is meant by Work Breakdown Structure? Explain representations of WBS with suitable examples. [8]

P.T.O.

Q5) a) Compare Software Quality Assurance, Software Quality Control and Software Testing. [9]

b) Explain following quality factors with their key attributes:- [9]

i) Portability

ii) maintainability

iii) Reusability

OR

Q6) a) How to define software quality? Explain McCall's Quality Factors with suitable diagram. [9]

b) What are different metrics are available for software quality control? How they control quality of software? [9]

Q7) a) Explain CASE workbench. Explain types of CASE workbenches. [9]

b) What is Kanban? What are benefits of Kanban? [8]

OR

Q8) a) What are the different global software development challenges? [9]

b) What are changes in software development? How to handle these changes. [8]

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