RVK/KW/13–3398

Eighth Semester B. E. (Comp. Engg.) Examination

OOSE (OBJECT ORIENTED SOFTWARE ENGINEERING)

Elective – II

Time : Three Hours]   [Max. Marks : 80

N. B.: (1) Same answer book must be used for both section.
   (2) All questions carry marks as indicated.
   (3) Answer **Three** questions from Section **A** and **Three** questions from Section **B**.
   (4) Due credit will be given to neatness and adequate dimensions.
   (5) Assume suitable data wherever necessary.
   (6) Illustrate your answers wherever necessary with the help of neat sketches.

SECTION A

1. (a) Explain different types of software myths and reality. 6

   (b) Why we require models for software development life cycle (SDLC). Explain waterfall and prototype model. 7

2. (a) Explain "Make-buy" decision tree in detail. 6

   (b) What is software risk ? What are different types of risks ? Explain 5 steps in Risk Management paradigm. 7

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3. (a) Explain Business Process Reengineering in detail. 6

(b) What is feasibility study ? Explain different types of feasibility in detail. 7

4. (a) What is SRS ? Why is it required ? Explain IEEE format of SRS with example. 8

(b) Explain DFD with example. What is data dictionary ? Explain. 6

5. (a) Explain abstraction, architecture, modularity, information hiding, functional independence, refactoring with respect to software design. 6

(b) Explain transform flow and transaction flow in detail. 7

SECTION B

6. (a) Explain Software Configuration Management (SCM) and Software reliability. 7

(b) Explain Software Quality and different types of standards used for software quality. 6

7. (a) Explain software testing objectives and principles. 6

(b) Explain how cyclomatic complexity is calculated ? Where is it used ? 7

8. (a) Explain α(alpha) and β(beta) testing with example. 6

(b) Explain Graph–based testing methods. 7

9. (a) Draw and explain class diagram and object diagram for Library Management System. 7

(b) Draw and Explain Sequence and Collaboration diagram for college admission process. 7

10. Write short notes. (any **three**) :—

(1) Reverse Engineering. 4

(2) Stress testing and Regression testing. 4

(3) Object oriented analysis and design. 4

(4) Component and Deployment diagram of UML. 4

(5) Activity and state diagram of UML. 5