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B.Tech. Degree V Semester Supplementary Examination
April 2018

CS 15-1503 OBJECT ORIENTED SOFTWARE ENGINEERING
(2015 Scheme)

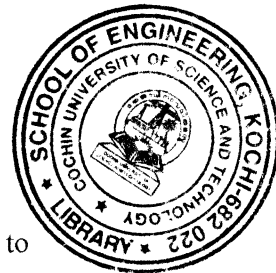
Time : 3 Hours

Maximum Marks : 60

PART A
(Answer ALL questions)

(10 × 2 = 20)

- I. (a) What are the major advantages of first constructing a working prototype before developing the actual product?
- (b) Explain why the spiral lifecycle model is considered to be a meta model.
- (c) List any four desirable characteristics of a good software requirement specification document.
- (d) Differentiate function oriented and object oriented software design.
- (e) What is the difference between sequence diagram and collaboration diagram?
- (f) What are the different system views that can be modeled using UML?
- (g) What is system testing? Explain three main kinds of system testing.
- (h) Discuss software configuration management activities.
- (i) Explain when to use PERT charts and when to use Gannt charts, if you were to perform the duties of a project manager.
- (j) Give the benefits of using CASE.



PART B

(4 × 10 = 40)

- II. (a) Discuss the different phases of iterative water fall model. (7)
- (b) Why is evolutionary model popular for object oriented software development project? (3)
- OR**
- III. Explain in detail structured analysis phase in function oriented software design. (10)
- IV. (a) What do you mean by cohesion and coupling in the context of software design? Why is it important? (4)
- (b) Explain different types of cohesion and coupling. (6)
- OR**
- V. (a) Explain the role of use case modeling in software development. (5)
- (b) Draw a use case diagram for a library automation system. (5)
- VI. Explain in detail white box testing and black box testing. (10)
- OR**
- VII. (a) What is CMM? Explain various levels of CMM in detail. (6)
- (b) Explain unit testing. (4)
- VIII. Explain in detail various stages of cost estimation in COCOMO. (10)
- OR**
- IX. Explain in detail various phases and activities in software project management. (10)