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***B.Tech. Degree V Semester Supplementary Examination  
November 2022***

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

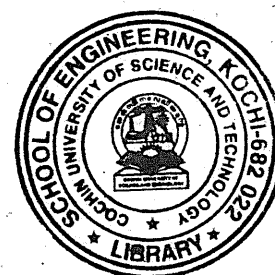
Time: 3 Hours

Maximum Marks: 60

**PART A**(Answer *ALL* questions)

(10 × 2 = 20)

- I. (a) What are the requirements of software analysis?  
(b) What is object oriented analysis?  
(c) Explain the need of software life cycle.  
(d) What are the difference of cohesion and coupling? Explain.  
(e) How will you implement the use case analysis? Give example.  
(f) Point out the evolution of software design.  
(g) What are the kinds of activities of system testing? Explain.  
(h) Describe the objectives of software testing.  
(i) Mention the activities covered by software project management.  
(j) Explain the directing and controlling of project management.

**PART B**

(4 × 10 = 40)

- II. (a) Evaluate the various phases of iterative waterfall model in software engineering. (6)  
(b) Discuss the properties that SRS should possess. (4)
- OR**
- III. (a) Illustrate the different phases of the spiral model with a diagram. (7)  
(b) Explain the implementation of Agile development. (3)
- IV. Enumerate the design frameworks and patterns in object oriented systems. (10)
- OR**
- V. (a) Elaborate the concepts of user interface design. (5)  
(b) Describe the design heuristics of software design. (5)
- VI. (a) Outline the SQA system and architecture with neat diagram. (5)  
(b) Describe the top-down integration testing and bottom-up integration testing. (5)
- OR**
- VII. (a) Compare the black box testing and white box testing. (5)  
(b) What are the objectives of cost of software quality metrics? Explain. (5)
- VIII. (a) Examine the various phases of software project management with diagram. (5)  
(b) What are the best methods of staff selection? Explain. (5)
- OR**
- IX. (a) Discuss the methods of software project cost estimation. (5)  
(b) Bring out the functions of COCOMO a parametric model. (5)