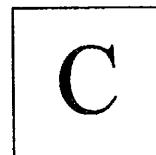


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***B.Tech. Degree V Semester Supplementary Examination  
November 2020***

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

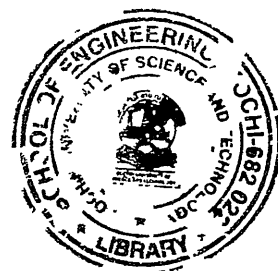
Time: 3 Hours

Maximum Marks: 60

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

(10 × 2 = 20)

- I. (a) What is a software life cycle model and why it is needed?  
(b) What is agile development?  
(c) State the main concepts of user interface design.  
(d) Discuss different types of views captured by UML diagrams.  
(e) Define SQM.  
(f) What are the main objectives of testing?  
(g) Discuss on CMM.  
(h) Discuss on software quality metrics.  
(i) What are the main duties of a software project manager?  
(j) Identify the main parameters that determines the software project cost.



**PART B**

(4 × 10 = 40)

- II. Explain spiral model with its pros and cons.  
**OR**  
III. Discuss prototyping model with its pros and cons.  
IV. Compare and contrast coupling and cohesion.  
**OR**  
V. Explain the design frameworks and patterns in object oriented systems.  
VI. Explain briefly black box and white box testing methods used for software testing.  
**OR**  
VII. What is meant by the terms SQA, SQM and SCM? Explain.  
VIII. With a suitable model explain how to estimate the cost of a software project.  
**OR**  
IX. Briefly explain planning, organizing, staffing and controlling phases of software project management.

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