BTS-V(S)-04.19-0819 Reg. No. | | | | | | | | |

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B.Tech. Degree V Semester Supplementary Examination April 2019

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) Why classical water fall model is considered as impractical to be used in real time projects?

(b) Explain what is a software prototype.

(c) Identify the problems that an organization might face if it does not develop an SRS document.

(d) Differentiate function oriented and object oriented design approach.

(e) Explain different types of coupling that can occur in between two modules.

(f) What is the purpose of a use case?

(g) Differentiate between verification and validation in the context of software testing.

(h) What is integration testing?

(i) Explain when you should use PERT chart and when you should use Gannt chart while you are performing the duties of a project manager.

(j) List the major responsibilities of a software project manager.

PART B

(4 × 10 = 40)

II. What is software life cycle? Discuss prototype model and Spiral model. (10)

OR

III. Explain functional requirements and nonfunctional requirements in the context of requirement analysis with a good example. (10)

IV. Explain in detail cohesion and coupling and its classification. (10)

OR

V. Discuss use case modelling with a real life example. (10)

VI. (a) What are the salient features of ISO 9001 certification? (6)

(b) Explain five different levels of SEI CMM model. (4)

OR

VII. (a) Why software configuration management is important? (3)

(b) Explain in detail integration testing. (7)

VIII. (a) Explain in detail COCOMO model. (7)

(b) Give the metrics of software project size estimation. (3)

OR

IX. Discuss various phases of project management. (10)

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