



CBCS SCHEME

15IS72

Seventh Semester B.E. Degree Examination, June/July 2019 Software Architecture and Design Pattern

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is design pattern? Explain essential elements of design patterns. (08 Marks)
- b. Define object oriented development. Explain key concepts of object oriented design. (08 Marks)

OR

- 2 a. Explain how to choose right design pattern for your problem. (08 Marks)
- b. Analyze step by step approach of applying a design pattern effectively. (08 Marks)

Module-2

- 3 a. What is use case analysis? Draw neat use case diagram for library system, also explain Register user use case with proper description. (10 Marks)
- b. Define facade pattern. Explain with neat diagram. (06 Marks)

OR

- 4 a. Explain activities involved in analysis phase. (08 Marks)
- b. During the design process, what are the questions need to be answered? (08 Marks)

Module-3

- 5 a. Explain the applicability and structure of a adaptor pattern. (08 Marks)
- b. Describe the motivation of composite pattern with neat diagram. (08 Marks)

OR

- 6 a. Explain the issues to be consider while implementing the decorator pattern. (08 Marks)
- b. Describe structure and participants of proxy pattern. (08 Marks)

Module-4

- 7 a. With neat diagrams, explain MVC architecture and alternative view of the MVC architecture. (08 Marks)
- b. Explain the characteristics of architectural patterns in pattern based solutions. (08 Marks)

OR

- 8 a. Define the controller. Explain the steps involved in defining the controller. (08 Marks)
- b. With neat diagram, explain the design of the view subsystem. (08 Marks)

Module-5

- 9 a. Explain the architecture of client/server systems. (08 Marks)
- b. How to develop the user requirements? Explain steps involved in it. (08 Marks)

OR

- 10 a. Explain the process of implementing a remote interface. (10 Marks)
- b. Compare GET and POST methods. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.