

CBCS SCHEME

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15IS72

Seventh Semester B.E. Degree Examination, Aug./Sept. 2020 Software Architecture and Design Patterns

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Enlist the four essential elements of pattern. (08 Marks)
b. Describe with neat sketch Design pattern in smalltalk MVC. (08 Marks)

OR

- 2 a. How to select a Design pattern? (08 Marks)
b. Explain how to use a Design pattern. (08 Marks)

Module-2

- 3 a. Explain the Business processes of the library system. (08 Marks)
b. Describe with a diagram the library system. (08 Marks)

OR

- 4 a. How do Business Rules Relate to use cases? (08 Marks)
b. Explain use case Renew Books. (08 Marks)

Module-3

- 5 a. Describe with neat diagram the object adapter case. (08 Marks)
b. With neat diagram, explain : (08 Marks)
i) A class adapter uses multiple inheritance
ii) An object adapter relies on object composition.

OR

- 6 a. Explain composite pattern. (08 Marks)
b. Describe Textview object with Border Decorator and Scroll Decorator. (08 Marks)

Module-4

- 7 a. Explain model view controller architecture. (08 Marks)
b. What are benefits of the MVC pattern? (08 Marks)

OR

- 8 a. With neat diagram describe sequence of operation for drawing a line. (08 Marks)
b. Illustrate the implementation of UNDO operation. (08 Marks)

Module-5

- 9 a. Explain basic architecture of Client/Server systems. (08 Marks)
b. How Servelets and HTML co-operate serve web pages? (08 Marks)

OR

- 10 a. Explain state transition diagram for renewing books. (08 Marks)
b. Analyze the Directory structure for the servelets. (08 Marks)

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.



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