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SET/CSE/BCA/DSE–5A3

B. C. A. (Sixth Semester)
EXAMINATION, 2022

(New Course)

UNIFIED MODELING LANGUAGE

Time : Two Hours] [*Maximum Marks : 70*

Note : (i) Attempt any *five* questions (out of seven questions) from Section A and any *three* questions (out of six questions) from Section B.

(ii) Answer each question of Section A within 50 words.

(iii) Limit your answers within the given answer book. Additional answer book (B-Answer book) should not be provided or used.

Section—A

Note : Attempt any *five* questions. Each question carries 5 marks.

1. Give an outline of object-oriented development process.

2. How should you identify use cases of a system ?

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3. What does aggregation relationship between classes represent ?

4. Explain the advantages of object-oriented design.

5. What do you understand by data abstraction ?

6. What is the use of component diagram ?

7. Interpret the meaning of event, state and transition.

Section—B

Note : Attempt any *three* questions. Each question carries 15 marks.

1. Describe the basic activities in object-oriented analysis and explain how use-case modeling is useful in analysis.

2. Illustrate with an example the relationship between sequence diagram and use-cases.

3. Describe the UML notations for class diagram with an example. Explain the concept of link and association.

4. Which diagram in UML capture the behavioural view of the system ? Which UML diagram capture structural aspect of system ? Explain each of them.

5. Explain with an example, how use-case modeling is used to describe functional requirements. Identify the actors, scenario and use-cases for the example.

6. Discuss about the business modeling workflow with example.

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