**14CS/IT702**

**Hall Ticket Number:**

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**IV/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION**

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| **January, 2021** | **Common to CSE & IT** | | |
| **Seventh Semester** | **Object Oriented Analysis And Design** | | |
| **Time:** Three Hours | | **Maximum :** 60 Marks | |
| *Answer ALL Questions from PART-A.* | | | (1X12 = 12 Marks) |
| *Answer* ***ANY FOUR*** *questions from PART-B.* | | | (4X12=48 Marks) |
| **Part - A** | | | |

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| 1 | Answer all questions | | (1X12=12 Marks) | |
|  | a) | Define actor? | |  |
|  | b) | Define scenario. | |  |
|  | c) | Define internal event. | |  |
|  | d) | What is meant by messages? | |  |
|  | e) | Define swim lane. | |  |
|  | f) | Define logical design. | |  |
|  | g) | Define signal event in UML. | |  |
|  | h) | Differentiate a pattern and frame work. | |  |
|  | i) | Define stake holder. | |  |
|  | j) | What are the three basic types of attributes? | |  |
|  | k) | What is Reusability? | |  |
|  | l) | What is Multiplicity? | |  |
| **Part - B** | | | | |
| 2 | a) | What is object-orientation? Explain briefly the concepts and origin of object orientation. | | 6M |
|  | b) | Draw a class diagram for each group of classes: school, playground, principal, school board, classroom book, student, teacher, cafeteria, restroom, computer, desk, chair, ruler, door, swing. Add associations and generalizations and show multiplicity wherever it is applicable. | | 6M |
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| 3 |  | Explain use case realisation in detail with suitable example. | | 12M |
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| 4 | a) | Compare and contrast the sequence diagrams and collaboration diagrams | | 6M |
|  | b) | What are the main differences between Algorithmic and Non-algorithmic techniques in operation specification? | | 6M |
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| 5 | a) | Clearly explain the notation and model elements and to draw state chart diagram | | 6M |
|  | b) | Draw the sequence diagram for student course registration system. | | 6M |
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| 6 | a) | Discuss about qualities and Objectives of Good Analysis and Design? | | 6M |
|  | b) | Explain in detail about criteria for good design? | | 6M |
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| 7 | a) | Explain about processor allocation. | | 6M |
|  | b) | Explain about data management issues. | | 6M |
|  | | | | |
| 8 | a) | Explain User Interface Design Patterns and What are the Five steps to prepare a Statechart to model a User Interface? | | 6M |
|  | b) | Explain Planning a Strategy for Reuse? | | 6M |
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| 9 | a) | Define Deployment Diagram? Draw Deployment diagram for Railway Reservation System? | | 6M |
|  | b) | Define Component Diagram? Draw Component diagram for Library Management System. | | 6M |

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