

M.E. First Semester (Computer Engineering) (Full Time) (C.G.S.)

**13125 : Object Oriented System : 1 KMEF 4**

P. Pages : 1

Time : Three Hours



**AU - 3235**

Max. Marks : 80

- Notes : 1. Due credit will be given to neatness and adequate dimensions.  
2. Illustrate your answer necessary with the help of neat sketches.

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|-----|----|--|----|
| 1.  | a) | What are the use cases? Explain specifications of use cases.                                       | 7  |
|     | b) | Explain unified process structure & phases.  | 7  |
|     |    | <b>OR</b>  |    |
| 2.  | a) | Explain unified process axioms & structure.  | 6  |
|     | b) | Explain requirement flow diagram and defining requirement.   | 8  |
| 3.  |    | Explain various techniques of finding analysis classes.  | 13 |
|     |    | <b>OR</b>  |    |
| 4.  | a) | Explain inheritance & polymorphism.  | 6  |
|     | b) | What is association? Explain reflexive association in brief.                                       | 7  |
| 5.  | a) | Explain communication diagram with example.  | 6  |
|     | b) | Explain nested packages & package dependencies.  | 7  |
|     |    | <b>OR</b>  |    |
| 6.  | a) | Explain interaction occurrence & continuation.   | 7  |
|     | b) | Explain sequence diagram with example.   | 6  |
| 7.  | a) | What are the activities? Explain activity partitions.  | 8  |
|     | b) | Explain components based development.  | 6  |
|     |    | <b>OR</b>  |    |
| 8.  | a) | Explain the following :<br>i) <<central buffer>> node.                      ii) <<transformation>> | 8  |
|     | b) | Discuss advance flow features.   | 6  |
| 9.  | a) | Explain designing with interfaces.   | 6  |
|     | b) | Explain procedure for refining association to aggregation relationship.                            | 7  |
|     |    | <b>OR</b>  |    |
| 10. | a) | Discuss interface realization versus inheritance.  | 7  |
|     | b) | Explain associations of any three types.   | 6  |
| 11. | a) | Explain modelling concurrency & subsystem interaction.   | 7  |
|     | b) | Explain timing diagrams.   | 6  |
|     |    | <b>OR</b>  |    |
| 12. |    | What is Composite? Explain different types of composite states.                                    | 13 |

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