

ED-637

M.Sc. 3rd Semester Examination, March-April 2021

COMPUTER SCIENCE

Paper - V

Object Oriented Analysis and Designs

Time: Three Hours] [Maximum Marks: 100]

[Minimum Pass Marks: 40

Note: Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

- 1. (a) What do you understand by SSAD and OOAD? Explain why is it important?
 - (b) What do you mean by software object oriented software engineering? Explain its characteristics in detail.
 - (c) Describe object oriented design modelling and analysis.

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(Turn Over)

(2)

Unit-II

- **2.** (a) What is UML and its need? Name basic building blocks of UML.
 - (b) What are the components of a use case diagram? Explain the usage with the help of an example.
 - (c) Explain inception, elaboration, construction and transition phases of Development process.

Unit-III

- **3.** (a) What do you mean by 'Noun phrase' approach for identifying classes? Explain in detail.
 - (b) Write short notes on the following:
 - (i) Activity diagram
 - (ii) Domain analysis
 - (c) Explain Association and Link relationships.

Unit-IV

- **4.** (a) What do you understand by Class diagram? Explain with a suitable example.
 - (b) What are the steps to translate Analysis concept into design?
 - (c) Describe the term 'Controls and Security' in Design phases.

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(3)

Unit-V

- **5.** (a) What do you mean by Reusability in terms of Design phase? Explain with an example.
 - (b) Explain Object oriented database management system.
 - (c) Write short notes on the following:
 - (i) Checking completeness and correctness
 - (ii) Testing business process

25.

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120