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.

(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.

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

———