Total number of printed pages-4

44 (6) BCA-6·1 (OOAD) (EL)

2023

OBJECT ORIENTED ANALYSIS AND DESIGN

Paper : BCA-6.1

Full Marks : 80

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any four questions.

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1. (a) Define object oriented analysis. Why is it important? 5

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(b) Define the following terms with example: 2×5=10

Object, Classes, Encapsulation, Inheritance, Data hiding

- (c) What do you mean by Generalisation ?
 Explain with example.
- (a) What are links and association?
 Explain with examples.
 - (b) Differentiate between system design and object design. 5
 - (c) What are the advantages and disadvantages of object oriented analysis?
 - (d) Define dynamic modelling. What are the major components of dynamic modelling?
- 3. (a) Define the following terms : $1 \times 10 = 10$
 - (i) Guard condition
 - (ii) Events
 - (iii) Scenario
 - (iv) Concurrency of events

44 (6) BCA-6·1 (OOAD) (EL)/G 2

- (v) DFD
- (vi) ERD
- (vii) Processes
- (viii) Abstraction
- (ix) Constraints
- (x) Relationship
- (b) Define functional modelling. What are the major components of DFD ? Explain with the help of one example.
- 4. (a) What are the main relationship between object, dynamic and functional models?
 Explain briefly. 10
 - (b) Define class and object diagram with example. 5
 - (c) What do you mean by component diagram? Explain briefly.

44 (6) BCA-6-1 (OOAD) (EL)/G 3 Contd.

5. Write short notes on : (any four)

5×4=20

- (a) Deployment diagram
- (b) Use case diagram
- (c) Interaction diagram

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(d) Identifying patterns and handling boundary conditions

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(e) Implementing associations