No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 33212 Roll No. 1 2 1 0 [redacted]

B. Tech Examination 2022-23

(Odd semester)

OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION – A

1. Attempt all parts of the following : $8 \times 1 = 8$

   (a) What is state chart diagram?

   (b) What do you mean by fork?

   (c) What is modeling?

   (d) Define events and signals.

   (e) Differentiate between process and thread.

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(f) Explain the purpose of activity diagram.

(g) [illegible] relationship used in class diagram.

(h) What are "advance classes".

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

(a) What is collaboration diagram? Draw a collaboration diagram for online railway reservation system.

(b) Write short note on object oriented software life cycle.

(c) What do you mean by sequence diagram? Explain various terms and symbol used in sequence diagram.

(d) Differentiate between the concept of generalization and aggregation with suitable example.

SECTION – C

e:- Attempt all questions. Attempt any two parts from each question. $8 \times 5 = 40$

Following

PAPER ID : 3[illegible]

Examination [illegible]

3. (a) Explain use case diagram? Draw use case diagram for online shopping.

(b) What is object diagram? What are the common modeling techniques for object diagram?

(c) What do you mean by object oriente technology? Discuss the pros and cons of obje oriented technology with suitable example.

4. (a) What do you mean by interaction diagram? A explain the notation used in interaction diagr with example.

(b) Explain conceptual model of the UML?

(c) Explain deployment diagram with example

5. (a) Explain component diagram with example

(b) Discuss the following terms with su example and UML notation with respect to model :

(i) Aggregation

(ii) Multiplicity

(c) What is package? Write the steps involved in common modeling techniques.

6. (a) Explain the architecture of UML?

(b) What do you mean by state diagram? Draw state diagram for making a phone call.

(c) Draw the use case diagram for hospital management system.

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