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Faculty of Engineering & Technology

Fifth Semester B.E. (Computer Technology) (C.B.S.)

Examination

OBJECT ORIENTED MODELING

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve **SIX** questions as follows :
 - Question No. 1 OR Question No. 2,
 - Question No. 3 OR Question No. 4,
 - Question No. 5 OR Question No. 6,
 - Question No. 7 OR Question No. 8,
 - Question No. 9 OR Question No. 10,
 - Question No. 11 OR Question No. 12.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Illustrate your answers with necessary figures/drawing wherever necessary.
- (5) Assume suitable data wherever necessary.

1. Define the following terms :—

- (i) Encapsulation
- (ii) Information Hiding
- (iii) Polymorphism
- (iv) Abstraction
- (v) Inheritance
- (vi) Concrete classes
- (vii) Abstract classes.

11 marks

OR

2. (a) Write a short note on software development life cycle. 6

(b) Discuss different static and dynamic diagrams of UML. 8

3. Draw a class diagram of an organization of college to visualize management, different departments, employees and students. 13

OR

4. Draw an object diagram for a company, its various departments and different persons working under different departments. 13

5. Draw the use case diagram for the course registration system and explain relationships. 13

OR

~~6.~~ Draw an activity diagram for making a two way telephone call. 13

~~7.~~ (a) Differentiate between nodes and components in UML. 5

(b) What is a component diagram ? What are the different parts of component diagram ? 8

OR

8. Draw and explain deployment diagram for an ATM machine. 13

9. Write short notes on (any **THREE**) :—

(a) Use case driven processes.

(b) Architecture centric processes.

(c) Interactive process

(d) Incremental process. 14

OR

~~10.~~ (a) Write a short note on Reverse Engineering. 7

(b) Write a short note on Forward Engineering. 7

11. (a) Write a short note on Architecture centric processes. 7

(b) What is component based software development ? What are its advantages ? 6

OR

12. Discuss Iterative and Incremental approach of software development. 13