B.E. (Computer Engineering) Fourth Semester (C.B.S.)

Object Oriented Methodology Paper - V

P. Pages : 2

Time : Three Hours

TKN/KS/16/7395

Max. Marks : 80

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Notes :
1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Due credit will be given to neatness and adequate dimensions.
9. Assume suitable data whenever necessary.
10. Illustrate your answers whenever necessary with the help of neat sketches.
11. Use of non programmable calculator is permitted.

1. a) What do you mean by object orientation & object oriented development. **4**

   b) Explain Abstract class & concrete class with suitable example. **5**

   c) What do you mean by association? Elaborate it with types, attributes & other details. **5**

   OR

2. Explain the following. **14**
   a) Class descriptors
   b) Candidate keys
   c) Meta data
   d) Multiple inheritance
   e) Multilevel inheritance
   f) Generalization.
   g) Aggregation.

3. Define State & Nested State And also prepare a scenario & Draw Event Trace diagram for telephone system [using one telephone line]. **13**

   OR

4. a) Explain Nested Data Flow diagram in detail & give an example. **7**

   b) Draw functional diagram for calculating area of square & rectangle. **6**

5. a) What is need of analysis phase in OOD? Explain in detail the various phases of analysis in OOD. **13**

   OR

6. a) Explain the steps performed in constructing an object model. **7**

   b) Write note on refining the object model. **6**

7. a) What do you mean by system design? What are the decision made by designer. While designing a system? Elaborate all in detail. **7**

   b) What do you mean by management of Data store? What are the advantages & disadvantages of using database system over simple files. **7**

   OR

8.	a)	How procedure Driven, Event Driven & concurrent system differs each other? Discuss it in detail.	**6**
	b)	Explain Batch transformation & write steps in designing the batch transformation.	**5**
	c)	Write note on 'settling trade off priorities'.	**3**
9.	a)	Explain need of packaging. What different issues are involved in physical packaging of s/w product? Explain implementation of packaging.	**8**
	b)	What kind of adjustment is needed to increase the chance of inheritance.	**5**

OR

10.	a)	Explain in detail the criteria for choosing algorithm among alternative algorithms during object design.	**6**
	b)	Write short note on: i) One way association in object design. ii) Two way association in object design.	**3+4**
11.	a)	Enlist & Discuss the points which differentiate Booch's & Jacobson Methodologies with each other.	**6**
	b)	Write note on implementation of using programing language & using database system.	**7**

OR

12.		Write note on: i) Reusability ii) Extensibility iii) Robustness	**13**

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