Register Number……

B.TECH. DEGREE EXAMINATIONS: NOVEMBER 2009

Fifth Semester

INFORMATIOIN TECHNOLOGY

U07IT502: Object Oriented Analysis and Design

Time: Three Hours **Maximum Marks: 100**

Answer ALL the Questions:-

PART A (10 × 1 = 10 Marks)

1. Validation is

   A. the product right. B. the right product. C. the right process D. the correct output

2. Reusability is possible by

   A. Information hiding B. Polymorphism C. Inheritance D. Encapsulation

3. OMT is presented by

   A. Rumbaugh B. Jacobson C. Booch D. Pressman

4. UML stands for

   A. Universal Modeling Language B. Unique Modeling Language

   C. Unified Markup Language D. Unified Modeling Language

5. Skills risks are

   A. requirements of the system B. selecting technology

   C. availability of staff and expertise D. political forces that affect project.

6. Nouns in the textual description are considered as

   A. classes B. Objects C. Methods D. Data members

7. Transaction is

   A. flow of events B. flow of Data

   C. Atomic set of activities D. Collection of activities

8. Cohesion reflects

   A. multiple-purposeness B. single -purposeness

   C. behavior of an object D. interaction between multiple objects.

9. Constructor

   A destroys instances B. sets values of attributes

   C. returns values of attributes D. creates instances (objects) of the class.

10. Black box testing is

    A. what goes in and what comes out B. path testing

    C. Statement testing coverage D. Branch testing coverage.

PART B (10 × 2 = 20 Marks)

11. Define Object.

12. What is Software Development Process?

13. Define ‘Collaboration’ in Object model.

14. What is Notation in UML?

15. Define Macro and Micro development processes?

16. What are the organization classes?

17. What are some common associations?

18. Define coupling.

19. List the object-oriented design axioms.

20. What is a user satisfaction test?

PART C (5 × 14 = 70 Marks)

21. (a). Explain Object Oriented System Development process with the various phases of waterfall approach. (14)

(OR)

(b). Explain the following object oriented concepts with suitable example: Encapsulation, Inheritance, Polymorphism, Associations (14)

22. (a). Explain the need and uses of (i) Sequence and (ii) Collaboration diagrams with help of example diagrams. (14)

(OR)

(b).(i). Discuss Booch's Object-Oriented Analysis and Design methodology. (10)

(ii).Compare the Object Oriented methodology of Rumbaugh and Jacobson. (4)

23. (a). Describe the basic activities in Object oriented analysis and explain how Use-case modeling is useful in analysis. (14)

(OR)

(b). Explain how classes and their behaviors are identified through sequence/ collaboration modeling with example of bank ATM system. (14)

24. (a) Write short notes on the following:

(i) Design axioms (4)

(ii) Object Oriented Data bases with DBMS models (10)

(OR)

(b). Explain in detail about six corollaries of the design decisions. (14)

25. (a).(i) Describe the different types of testing strategies. (6)

(ii) What are interface objects? Explain how to design them. (8)

(OR)

(b). Discuss in detail about software quality, usability and user satisfaction testing. (7+7)

****