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ECS305

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

PAPER ID: 0113 Roll No.

B.Tech

(SEM III) ODD SEMESTER THEORY EXAMINATION 2009-10 OBJECT ORIENTED SYSTEMS

Time : 3 Hours/

[Total Marks: 100

- Note : Attempt all questions.
- 1 Attempt any four parts :

5×4=20

- (a) What is object oriented methodology ?
- (b) Explain links and association with suitable example.
- (c) Differentiate between aggregation and association.
- (d) Prepare a portion of an object diagram for a library book checkout system that shows the data a book in due and the late charges for an over due book as derived objects.
- (e) Explain generalization and inheritance with example.
- (f) What is meta data ? How it is important in object oriented methodology ?

Attempt any four parts :

2

5×4=20

- (a) What is dynamic modeling ? What is its important ?
- (b) What are nested state diagrams ? Explain by taking a suitable example.
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- (c) Prepare a list of objects that you would expect of the system to handle a Telephone Answering Machine.
- (d) Explain event and state by taking a suitable example.
- (e) What do you mean by aggregation concurrency?
- (f) Discuss various ways of implementing DFD.
- Attempt any two parts :

3

2×10=20

- (a) What is functional modeling ? What are its advantages ? Describe the relation of functional model, object model and dynamic model.
- (b) What is JSD ? Compare between SA/SD and OMT modeling.
- (c) What is Java foundation classes ? Prepare a date flow diagram for computing the volume and a surface of cylinder. Inputs are the height and radius of the cylinder. Output are volume and surface area. Discuss several way of implementing the data flow diagram.
- Attempt any four parts :

- 5×4=20
- (a) How are methods and data organised in an object oriented program ? With a example.
- (b) What are command line arguments ? Write a program for finding factorial for a given number using command line argument.
- (c) What is type casting ? Why is it required in programming ?
- (d) What is copy constructor with example ?
- (e) What is an interface ? Write a program to find the area of the circle by using interface.
- (f) How many types of layout manager are used in java programming ? Describe each type in short.

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5 Attempt any two parts :

2×10=20

- (a) What is swing ? How it differs with AWT ? Write a program in swing which shows two input boxes names uses id and passwords.
- (b) What is applet, define its life cycle ? How servlets are different from applet ? Write a program in servlet which prints the word "hello".
- (c) Write short notes on any two :
 - (i) JDBC
 - (ii) Difference between Java and C++
 - (iii) Java Beans
 - (iv) Lavatron applet.

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