

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

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Odd Semester Examination-2016

B.Tech (Semester-III)

OBJECT ORIENTED PROGRAMMING

[Time : 3 Hours]

[Maximum Marks : 100]

Note : Attempt **all** questions. All questions carry **equal** marks.

1. Attempt **any four** questions : [5×4=20]

- (a) What do you understand by Object Oriented Programming? Also explain its features, pros & cons ?
- 13 (b) What is State Diagram? Explain the State Diagram for ATM?
- (c) Explain the stages of Object Modelling Technique.
- (d) Explain what is abstract class? How it is different from concrete class?
- (e) Explain Links, Association and Multiplicity with example.

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2. Attempt **any four** questions : [5×4=20]

- (a) Prepare a DFD for computing volume and surface area of cylinder? Discuss several ways of implementing DFD?
- (b) How does String class differ from StringBuffer class? Write a program which will read a string and rewrite it?
- (c) Explain ER diagram with example.
- (d) Discuss Event & State? Also explain event state diagram for phone call.
- (e) Compare SA/SD and JSD methodologies.

3. Attempt **any two** questions : [10×2=20]

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- (a) What is an Applet? Describe the life cycle methods of Java Applet? Also explain ways to execute the Applet?
 - (b) Explain Multiprocessing & Multithreading with help of suitable example. What are different layout available in Java?
 - (c) Explain the rules for assigning the values of expression to a variable. How can be truncating a number with the help of methods, like round, ceil and floor?

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4. Attempt any two questions : [10×2=20]

- (a) What do you mean by AWT? Explain its application, working & controls with windows?
- (b) Give reasons why exception handling techniques should not be used for conventional program control? Discuss how exception handling is done in Java?
- (c) Differentiate between String and String Buffer for a string str = "PAYAL", write a program to display the str in lower case?

5. Attempt any two questions : [10×2=20]

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- (a) Explain what was the need of migrating from C++ to Java in software development.
- (b) Differentiate JDBC with ODBC. Also explain different drivers in JDBC.
- (c) What is java swing? Explain it with proper example.

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