

**B.TECH. SEM -VII ELECTRONICS / (E & TC ENGG.) 2014 COURSE
(CBCS) : WINTER - 2017**

SUBJECT: ELECTIVE – I : ADVACED COMPUTER PROGRAMMING

Day : **Monday**
Date : **22/01/2018**

Time : **02.30 PM TO 05.30 PM**
Max Marks : **60**

W-2017-2301

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.

Q.1 Write short note on : (10)
a) Data Abstraction
b) Inheritance
c) Dynamic Binding

OR

- a) Distinguish between procedure oriented and object oriented programming. (05)
- b) "Write once run anywhere, anytime forever", Justify this statement with respect to Java. (05)

Q.2 a) Discuss how Java is different from C++. (05)
b) Write short on: Garbage collection mechanism. (05)

OR

What is Interface? How to declare and access an Interface? (10)

Q.3 a) Define multithreading. How is a thread different from a process? (05)
b) What are the different I/O files in Java? (05)

OR

What is Package? How to create and access package in Java? Give example. (10)

Q.4 a) What are the differences between HTML and DHTML? (05)
b) Describe the structure of HTML program. (05)

OR

- a) Discuss the life cycle of an Applet. (05)
- b) What is tag? What are the attributes that can be used with tag? (05)

Q.5 a) Describe the terms (06)
a) Database
b) Data Model
c) Database Schema

b) Explain different forms of SELECT query with an example. (04)

OR

- a) Discuss the different data models. (06)
- b) Give the syntax of INSERT, DELETE, UPDATE statement. (04)

Q.6 Describe the basic components of JDBC. Explain in detail the different drivers of JDBC. (10)

OR

- a) What are the steps involved in establishment of a JDBC connection? (06)
- b) Define Resultset, Metadata and Stored Procedure. (04)

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