

**B.Tech. SEM -VII Electronics / (E & TC Engg.) 2014 Course (CBCS)  
: WINTER - 2018**

**SUBJECT : ELECTIVE - I : ADVANCED COMPUTER PROGRAMMING**

Day : Monday  
Date : 03/12/2018  
W-2018-2561  
Time : 02.30 PM TO 05.30 PM  
Max. Marks : 60

**N. B. :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

- Q. 1 a) Describe the different programming paradigms. (06)  
b) What are the applications of object oriented programming? (04)

**OR**

- Q. 1 Describe all the features of object oriented programming language. (10)

- Q. 2 a) What are the different types of variables in Java? Describe them with the help of examples. (05)  
b) Write a program in Java to find even numbers in between 1 to 20. (05)

**OR**

- Q. 2 What is mean by Abstract class? What are the differences between Abstract class and interfaces? Describe with the help of examples. (10)

- Q. 3 a) Write a program in Java to handle DivideByZero Exception. (05)  
b) What are the different types of Exceptions? (05)

**OR**

- Q. 3 a) What is the use of InputStream and OutputStream in I/O in Java? (05)  
b) How to define a package? Describe with example. (05)

- Q. 4 a) Describe <TABLE>, <TR> and <TD> tags. (05)  
b) With suitable examples, write down the syntax for HTML tags for text formatting. (05)

**OR**

- Q. 4 Create an applet to display a banner which scrolls from right to left across the applet's window. (10)

- Q. 5 What are the different operations to merge data from multiple tables? Describe with examples. (10)

**OR**

- Q. 5 a) Describe the use of ORDERBY and WHERE clause with an example. (07)  
b) What is RDBMS? (03)

- Q. 6 Describe JDBC architecture in detail. (10)

**OR**

- Q. 6 a) Describe the terms callable and connection procedure. (05)  
b) Describe the use of ResultSet and Metadata (05)