

**B.TECH. SEM -VII ELECTRONICS / (E & TC ENGG.) 2014**  
**COURSE (CBCS) : SUMMER - 2018**  
**SUBJECT: ELECTIVE – I : ADVANCED COMPUTER PROGRAMMING**

Day : **Friday**  
Date : **25/05/2018**

**S-2018-2506**

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

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**N.B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Use of non-programmable **CALCULATOR** is allowed.
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- Q. 1** a) Discuss how polymorphism is implemented in OOP. (05)  
b) Write short note on Encapsulation in OOP. (05)

**OR**

What are the benefits of OOP? (10)

- Q. 2** Discuss the significance and use of SUPER keyword in inheritance with an example. (10)

**OR**

Write a program in Java to generate a 2D array. The output should be as : (10)

```
0 1 2 3 4
5 6 7 8 9
10 11 12 13 14
15 16 17 18 19
```

- Q. 3** a) What is the difference between error and exception? What is exception handling? (05)  
b) Write short note on: Deadlocks in threading. (05)

**OR**

How are threads created in Java? Describe any one method with the sample code. (10)

- Q. 4** a) Describe the basic elements of HTML (10)

**OR**

- a) What is Applet? How is it useful? (05)  
b) Explain the following HTML tags. (05)

- i) <p>
- ii) <br>
- iii) <h1>
- iv) <title>
- v) <body>

- Q. 5** a) What are the advantages of DBMS over file system? (06)  
b) How to merge data from different tables? (04)

**OR**

- a) What is a database? What is DBMS? (05)  
b) Define PL/SQL and MySQL. (05)

- Q. 6** Discuss JDBC with suitable example (10)

**OR**

- a) Give the syntax of JDBC connectivity function with its parameters. (04)  
b) Illustrate the different types of JDBC drivers. (06)

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