

**B.Tech. SEM -VII Electronics / (E & TC Engg.) 2014 Course (CBCS) :
SUMMER - 2019**

SUBJECT : ELECTIVE – I : ADVANCED COMPUTER PROGRAMMING

Day : Wednesday
Date : 15/05/2019

S-2019-2826

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.
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- Q. 1 a)** Describe how polymorphism is implemented in object oriented programming languages. (05)
- b)** Write a short note on message communication in object oriented programming. (05)

OR

- Q. 1** Define the following terms: (10)
- i) Data hiding ii) Encapsulation iii) Class iv) Object v) Inheritance

- Q. 2** Why Java does not support multiple Inheritance? What is the role of interface in multiple inheritance? Describe with example. (10)

OR

- Q. 2 a)** Give the syntax to create an array in Java. Describe with one example. (05)
- b)** Define loops in Java? What are three types of loops? (05)

- Q. 3** What are two ways of implementing multithreading in Java? Describe them with the help of sample codes. (10)

OR

- Q. 3** Write a program to implement try and catch clause in exception handling mechanism. (10)

- Q. 4** Write HTML code to display four frames on a browser window. Each frame will display one string. (10)

OR

- Q. 4 a)** Give the tags for Lists in HTML. (05)
- b)** What is a life cycle of an Applet. (05)

- Q. 5 a)** What is the difference between SQL and PL/SQL? (05)
- b)** Compare various data models. (05)

OR

- Q. 5** Describe with the help of example INSERT, UPDATE, DELETE statements and SELECT query. (10)

- Q. 6** Write a note on Types of JDBC drivers. (10)

OR

- Q. 6** Describe stored procedure with an example. (10)

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