

[Total No. of Questions - 9] [Total No. (Printed Pages - 2)
(2066)]

16406(J)

M. Tech 2nd Semester Examination
Object Oriented Programming with Java

CSE1-521/MT-201

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five question in all. Question no. 9 in Section E is compulsory. Rest, attempt one question each from the Section A, B, C and D.

SECTION - A

1. Explain inheritance and polymorphism. Discuss their various form in detail with the help of suitable illustrations. (20)

OR

2. Write down a program in Java that accepts a fixed number of strings from the user, stores them in an array. Then sorts the strings alphabetically and prints the elements of the sorted array. Show the output also. (20)

SECTION - B

3. How is a class declared in Java and an object created from it? What is the role of a constructor? How are the objects destroyed after the execution of the program is over? (20)

OR

4. What is an interface? Differentiate between a class and interface? Explain the concept of method overriding with the help of a program written in Java. (20)

[P.T.O.]

2

16406

SECTION - C

5. What are multiple threads? How are these created? Discuss thread priorities and synchronization process in detail. (20)

OR

6. Explain the Applet architecture. How are the events handled in Java? (20)

SECTION - D

7. What are AWT classes? How are controls added and removed in a frame window? Explain with the help of suitable examples. (20)

OR

8. Differentiate between a component and container. Discuss Scroll Bars, Text Field and Text Area controls. (20)

SECTION - E

9. Explain the following:

- (a) Dialog Boxes
(b) Main thread
(c) 'Throw' keyword
(d) 'This' keyword
(e) '?' operator in Java.

(4×5=20)