

Total No. of Questions : 8]

SEAT No. :

PE-2558

[Total No. of Pages : 2

[6583]- 87

T.E. (Electronics/E & TC Engineering)

FUNDAMENTALS OF JAVA PROGRAMMING

(2019 Pattern) (Semester - V) (304185(C)) (Elective - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) What is the difference between method overloading and method overriding? Explain with suitable example. [9]

b) What are command line arguments? Write an example program for command line arguments. [9]

OR

Q2) a) What is a wrapper class in Java? Explain the meaning of autoboxing and unboxing in wrapper class. [9]

b) What is inheritance in Java? Explain various types of inheritance with diagrams and suitable programs. [9]

Q3) a) Explain the meaning of interface in Java. Write a suitable example program. [9]

b) A Java program that contains two interfaces. The first interface A that contains a method show() and second interface B that contains a method display(). Write a class that suitable implements these two interfaces and their methods. [8]

OR

Q4) a) Explain the meaning of package in Java. With suitable example, explain how to add classes and interfaces to a package. [9]

b) What are API packages in Java? Explain various API packages in Java. [8]

P.T.O.

- Q5)** a) How to create a simple applet? Explain various types of applets in Java. [9]  
b) Explain multi-threading in Java. Explain the two ways to create a thread in Java. [9]

**OR**

- Q6)** a) Explain the exception handling mechanism in Java with suitable code. [9]  
b) Write a Java program to display "Hello Java" on Applet. [9]

- Q7)** a) Explain the concept of Stream in Java. Explain the various classes of Byte Stream and Character Stream. [9]  
b) What is an event in AWT components? How events are handled in Java? Explain with suitable example. [8]

**OR**

- Q8)** a) Explain the hierarchy of the Swing package in Java. What are the various classes in Swing package? [9]  
b) Write a Java program to read from a text file. [8]

