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SE52

IT201

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Enrol. No. ....

SUPPLEMENTARY EXAMINATION : JUNE 2022

### JAVA PROGRAMMING

Time : 3 Hrs.

Maximum Marks : 60

*Note: Attempt questions from all sections as directed.*

#### SECTION – A (24 Marks)

*Attempt any four questions out of five.*

*Each question carries 06 marks.*

1. What is the object oriented paradigm? State four Features of Java.
2. (a) Write a program to implement the Fibonacci series using for loop control structure. (3)  
(b) Describe the following methods related to String
  - (i) replace()
  - (ii) compareTo()
  - (iii) charAt() (3)

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3. Discuss various Access Modifiers available in java?

How access modifiers effect the visibility of a member in different access locations?

4. What are the benefits of using Packages? Write down the steps of creating a package and using it in Java program with an example.

5. Discuss about exceptions? How are exceptions handled in Java explain with suitable example?

#### SECTION - B (20 Marks)

Attempt any two questions out of three.

Each question carries 10 marks.

6. (a) What is multithreading? Explain the steps for creating thread in Java. (5)

(b) Explain life cycle of thread with an example. (5)

7. Describe Some Useful Annotations from the Standard Library.

8. (a) What is layout manager ? Explain the Flow Layout and Border Layout with a suitable example. (5)

(b) Describe the uses of final and super keywords with respect to inheritance. (5)

#### SECTION - C (16 Marks) (Compulsory)

9. (a) Create a class Train inherited from Super fast Train class. Define proper constructor for both of the classes and methods to collect and display data of passengers . Show the example using virtual base class. (8)

(b) Write an applet for each of following graphics methods. drawoval(), drawrect(), drawline(), filloval(). (8)

(100)

