

M.C.M.-II (CBCS Pattern) Semester - IV
PMCMT402 - Paper-II : Java Concepts

P. Pages : 2

Time : Three Hours



GUG/S/23/10779

Max. Marks : 80

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- Notes :
1. All question are compulsory and carry equal marks.
 2. Draw a neat and labelled diagram wherever necessary.
 3. Avoid vague answers and with answer relevant and specific to questions only.

Either:

1. a) Explain the following- 8
i) JDK environment ii) The Java Virtual Machine.
b) Explain the different types of datatypes in Java using example. 8

OR

- c) Define Array and explain the methods use in array in detail. 8
- d) Write a Java program to find sum of prime numbers ranges from 1 to 100. 8

Either:

2. a) Define class & subclass Explain the relationship between superclass object and subclass object. 8
b) Define method. Explain the different types of method used in Java using suitable example. 8

OR

- c) Define Interfaces. Demonstrate the example to implement the interface. 8
- d) Write a Java program to design a Box class with overloaded constructor. 8

Either:

3. a) Define exception. Explain the types of exception in detail. 8
b) Explain the concept of Multithreading of thread using example. 8

OR

- c) Explain the following- 8
i) Thread priorities ii) Throws keyboard
d) Write a java program to demonstrate threads using Thread class and also with Runnable interfaces. 8

Either:

- 4.** a) Explain the following **8**
- i) Frames and Panels
 - ii) AWT controls
- b) Define Layout Manager? Explain different types of layout managers. **8**

OR

- c) What is files and stream. Explain stream classes in detail. **8**
- d) Design a uses interface using applet to accept two values and calculate sum of these numbers **8**
- 5.** Attempt all the questions.
- a) Explain the features of Java in brief. **4**
 - b) Write a short note on Packages. **4**
 - c) Explain the concept of Inheritance. **4**
 - d) What are Applets? Explain using suitable example. **4**
