

OBJECT ORIENTED PROGRAMMING USING JAVA**Time : 2.30 Hours]****[Maximum Marks : 50****[Minimum Marks : 17****NOTES :**

- i) Attempt all questions.
- ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi Translation of any question, the students should answer the question according to the English version.
- iii) Use of Pager and Mobile Phone by the students is not allowed.

Q1) Answer any two of the following :**[2 × 5 = 10]**

- a) Differentiate between Procedure - Oriented Programming and Object - Oriented Programming?
- b) Explain the structure of a typical Java Program?
- c) Write short note on Exception Handling?

Q2) Answer any two of the following :**[2 × 5 = 10]**

- a) What do you mean by Data types? Discuss all the data types available in Java?
- b) Differentiate between an abstract class and an interface?
- c) "Java is developed from C++ but still it is different." Explain in detail.

Q3) Answer any two of the following :**[2 × 5 = 10]**

- a) What is Synchronization? How it is related to thread Model?
- b) Write short note on Polymorphism and Encapsulation?
- c) Differentiate between Method and Constructor?

Q4) Answer any two of the following :**[2 × 5 = 10]**

- a) Define Inheritance? Explain its various types with example?
- b) Differentiate between Multithreading and Multitasking?
- c) Explain various loops available in Java along with examples?

Q5) Write short note on any two of the following :**[2 × 5 = 10]**

- a) Up-Casting and Down-Casting
- b) Access Control
- c) Arrays