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**MCS-206**

**POST GRADUATE DIPLOMA IN  
COMPUTER APPLICATION  
(PGDCA) (NEW)**

**Term-End Examination**

**December, 2021**

**MCS-206 : OBJECT ORIENTED PROGRAMMING  
USING JAVA**

*Time : 3 Hours*

*Maximum Marks : 100*

*Weightage : 70%*

**Note :** (i) *Question No. 1 is compulsory and carries 40 marks.*

(ii) *Attempt any **three** questions from the rest.*

1. (a) What is Object Oriented Programming ?  
What is an object ? How is it created in Java ? Explain with the help of an example. 6

- (b) Write a Java program which takes three numbers as input and displays the largest among these. 5
- (c) Explain why main method in Java is always static. 5
- (d) Differentiate between String and StringBuffer classes in Java. 5
- (e) What is Package in Java ? Explain, with example, how a user defined package is created in Java. 6
- (f) What is JDBC ? Explain use of DriverManager class in the context of JDBC. 5
- (g) What is Multithreading ? Explain Java thread model with the help of a diagram. 8
2. (a) What is an Abstract Class ? Explain advantages of abstract class with the help of a program. 10

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- (b) Explain use of “super” keyword in Java programming with the help of an example. 5
- (c) Write a Java program to demonstrate how a thread is created in Java. Also set the priority of created thread to 8. 5
3. (a) What is Exception ? Why proper exception handling is necessary in Java Programming ? Write a program to demonstrate use of multiple “catch” clauses in exception handling. 10
- (b) What is “File” class in Java ? List any *two* methods of “file” class. Also explain use of these methods with the help of a program. 10
4. (a) What is Polymorphism ? What are the different types of polymorphism ? Explain how polymorphism helps in code reuse in Java programming with the help of a program. 10

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- (b) Explain the use of the following classes in Java programming with the help of example : 10
- (i) Date
- (ii) List
5. (a) What is JavaFX ? Explain the features of JavaFX. 10
- (b) What is JDBC batch processing ? Explain with the help of a program. 10

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