

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2125)

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MCA 2nd Semester Examination
Object Oriented & Visual Programming Using Java (NS)
MCA-202

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all. Question no. 9 in section E is compulsory. Rest attempt one question from the sections A, B, C & D.

SECTION - A

1. (a) What is OOP's paradigm? (2)
- (b) Describe the security and portability features of Java. (2)
- (c) Write a program in Java that accepts two strings and checks out whether the two strings are same or not. Also discuss any 2 string handling library functions in Java. (6)

OR

2. (a) Write a program in Java that invokes overloaded Constructor through this (.). (6)
- (b) Discuss the architecture of JVM. (4)

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SECTION - B

3. (a) Write a program in Java to implement the multilevel inheritance, also show the use of super keyword in multilevel inheritance. (6)
- (b) How exceptions are handled in Java? (4)

OR

4. (a) What is Class Path? Discuss its role in compiling a Java program through command prompt. (4)
- (b) Differentiate between interface and abstract class in Java. (3)
- (c) Discuss the role of try and catch block for exception handling in Java. (3)

SECTION - C

5. Write a program in Java that write/read whole object to / from a file using serialization and de-serialization process. (10)

OR

6. (a) Create an applet in Java, that accepts two numbers as input and produces power (a, b) as output. (6)
- (b) Why do applets not need a main() function. (4)

SECTION - D

7. (a) List out AWT classes in Java. What are their applications? (6)
- (b) Discuss how AWT controls make easier way to collect inputs and produce output. (4)

OR

8. Write a program in Java to show the handling of mouse events in frame window. (10)

SECTION - E

9. Explain the following:

- (a) Constructor.
- (b) JVM.
- (c) Byte Code.
- (d) Super class constructor.
- (e) Package.
- (f) Deadlock.
- (g) Alive() in thread class.
- (h) AWT.
- (i) Layout Manager.
- (j) Dynamic method dispatch. (2×10=20)