[Total No. of Questions - 9] [Total No. of Printed Pages - 3] (2064)

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MCA 2nd Semester Examination

Object Oriented & Visual Programming using JAVA (N.S.) MCA-202

Time: 3 Hours Max. Marks: 60

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

Note: Candidates are required to attempt *five* questions in all selecting one question from each of the Section A, B, C & D and all the subparts of question in Section E.

SECTION - A

- 1. (a) List the basic data types used in JAVA. Explain with the help of suitable example. (6)
 - (b) Write a program in JAVA to find the sum of odd numbers in the range 1 to n using for loop. (6)
- 2. (a) Discuss any three string handling functions in JAVA by giving suitable example. (6)
 - (b) What is a constructor? What are the different types of constructor? Explain. (6)

SECTION - B

- 3. (a) Compare the following:
 - (i) Interface and class.
 - (ii) Public and private access specifier. (6)

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	(b)	What is inheritance and what are its uses? Describe to syntax of single inheritance in JAVA.	the (4)
	(c)	What is the use of super keyword? Explain.	(2)
4.	(a)	Write a program in JAVA to demonstrate the concept exception handling.	of (6)
	(b)	Differetiate between checked and unchecked exception	ns. (6)
SECTION - C			
5.	(a)	What are the thread priorities available in thread class Explain.	ss? (6)
	(b)	What is the importance of thread synchronization multithreading?	in (4)
	(c)	Explain the concept of deadlock.	(2)
6.	(a)	Explain the life cycle of an applet.	(6)
	(b)	What is the use of applet viewer and show statumethod in JAVA?	s() (6)
SECTION - D			
7.	(a)	Discuss any four methods in detail available java.awt.graphics.	in (8)
	(b)	Discuss two constructors of checkbox class.	(4)
8.	(a)	Discuss any three methods of Text Area class.	(6)
	(b)	Discuss the various steps for creating pull down men by giving an example.	ius (6)

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3 **SECTION - E (Compulsory)**

- 9. Explain the following:
 - Encapsulation. (i)
 - (ii) jar tool
 - (iii) this keyword
 - (iv) final modifier
 - (v) Polymorphism
 - (vi) catch statement
 - (vii) sleep() method
 - (viii) stream
 - (ix) destroy() method
 - (x) Frame
 - (xi) Scroll Bar
 - (xii) Checkbox $(1 \times 12 = 12)$