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MCA-16/M. Sc. (IT)-13

Programming in Java

Master of Computer Application/Master of Science in Information Technology (MCA/M.Sc.(IT)-11/12/16/17)

Fourth Semester, Examination, 2018

Time: 3 Hours Max. Marks: 80

Note: This paper is of eighty (80) marks containing three (03) Sections A, B and C. Learners are required to attempt the questions contained in these Sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note: Section 'A' contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

- What is JDBC ? Explain the various types of JDBC drivers. Also explain major design constraints with JDBC.
- 2. Explain the following using suitable example :
 - (a) Keyword
 - (b) Applets
 - (c) Exception Handling
 - (d) Java Token

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- 3. What are the benefits of using packages? Explain the steps in creating a package and using it is a Java program with an example.
- 4. Explain the multiple inheritance in java with example.

Section-B

(Short Answer Type Questions)

Note: Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer *four* (04) questions only.

- 1. Explain the characteristics of OOP.
- 2. Explain the java virtual machine.
- 3. What is method overloading? How is it different from method overriding?
- 4. Explain the an interface and applying interfaces.
- 5. Explain the exception handling fundamentals.
- 6. What is file handling in Java? Explain reading and writing files.
- 7. Explain various components of event handling.
- 8. Explain the AWT components.

Section-C

(Objective Type Questions)

Note: Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

- 1. Which is a valid keyword in Java?
 - (a) Interface
 - (b) String
 - (c) Float
 - (d) Unsigned

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2.	Whi	ich of these values can a boolean variable contain?
	(a)	True and False
	(b)	0 and 1
	(c)	Any integer value
	(d)	True
3.	Wha	at is the order of variables in Enum?
	(a)	Ascending order
	(b)	Descending order
	(c)	Random order
	(d)	Depends on the order() method
4.		ich of the below data type doesn't support rloaded methods for +, -, * and / ?
	(a)	int
	` /	float
	` ′	double
		big decimal
5.		ich of these can be returned by the operators?
	(a)	Integer
	(b)	Boolean
	(c)	Character
	(d)	Integer or Boolean
6.	Whi	ich of these have highest precedence?
	(a)	++
	(b)	()
	(c)	*
	(d)	>>

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7.	Strir	ng in Java is a :
	(a)	Object
	(b)	Variable
	(c)	Class
	(d)	Character array
8.		ch of these method of object class is used to obtain s of an object at runtime ?
	(a)	get()
	(b)	void getclass()
	(c)	class getclass()
	(d)	None of the above
9.		ch of the following operators is used to generate ances of an exception which can be thrown using w?
	(a)	thrown
	(b)	alloc
	(c)	malloc
	(d)	new
10.	Whi	ch of these can be overloaded?
	(a)	Methods
	(b)	Constructors
	(c)	All of the above
	(d)	None of the above

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