MAR-APril 2023

Total No. of Questions: 5]

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M.C.A. (Management)

IT 123 JAVA PROGRAMMING

(2020 Pattern) (Semester - I)

Time: 21/2 Hours!

1)

Max. Marks: 50

Instructions to the candidates:

- 1) Attempt all questions.
- Figures to the right indicate full marks.
- Q1) Each multiple choice question carries half marks. All questions are compulsory. [10]
 - memory locations.

Random a)

- b) Sequential
- Sequential and Random c)

In java, array elements are stored in

- d) Binary search
- method simply return a string that appropriately describes 11) on object of your class.
 - getchars() a)

- Contraction of the second of t to string() b)
- to Char Array()

- Package P1 contains the following code iii)

package 1;

public class student

(Body of student)

class Test

{Body of Test}

Import P1.*;

Class Result

{student S1;

Test t1;}

This code not compile because.

au				
2	/ a)	Class result should be declar		blic
1100	b)	Student class is not available	þ	
	c)	Test class is not available	**	
	d)	Result body is not fully defin		
iv)	Wh	ich of the following class in Jete a file.	ava.	io package defines a method to
	a)	Stack Stack	b)	File
	c)	String	d)	Vector
v)	For class	a valid file object reference, we can be defined in Java. io package	can cr	eate a new file using the following
	i)	File output stream	ii)	Random Access File
	iii)	Data Input		
	a) 🤇	i and ii only	b) (ii and iii only
	c)	i and iii only	d)	Albi ii and iii
vi)		at type of servlet use these molelete(), doTrace()?	ethoc	ls doGet(), doPost(), doHead(),
	a)	Generic servlet	(b)	Http servlets
	c)	All of the above	d)	None of the above
vii)	ITE	RATOR and LISTITERATOR	can 1	traverse over?
	a)	lists	b)	HttpServlets
	c)	All of the above	d)	None of the above
	e)	Set		
viii)		onvention, java packages begin es begin with an le		letters while all the class
	a)	uppercase, uppercase	b)	lowercase, lowercase
	c)	uppercase, lowercase	d)	lowercase, uppercase
ix)	An_a)	is an incomplete cl Abstract class	ass th	at requires further specification. Final class
	c)	Static class	d)	Super class
			(°)~	
			0	

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x)	W	Which of the following sub-classes are	included in object class in Java:
	i)		Date Date
	iii)) Label iv)	18
	a)	Con.	Thread ii, iii and iv only
	c)	i, iii and iv only d)	i, ii and iv only
xi)	WI	hich of these is a mechanism for na	
	cla	ass and its content?	
	a)	Object b)	Packages
	c)		None
Xiii) Wh	hich of this access specifiers can be us	ed for a class so that its members
	can	n be accessed by a different class in t	he same package?
	a)	Public b)	Protected
	c)	default d)	No modifier
Xiii) Ore	rder of enecution of constructions in J	ava Inheritance is
	a)	Base to derived class	Derived to base class
	c)	Random order d	None
XIV		hich of the following is/are true statem	
	a)	A class can extend only one class but	
	b)	An interface cannot extend many in	
	c)	An interface can implement another	interface.
	d)	An interface can implement a class	
xv)	Whi	nich of the following is false statement	
	a)	Package are used for preventing nar	
	b)	Providing controlled access: Prote	ected and default have package
		level access control.	1
	c)	Packages cannot be considered as	data encapsulation.
	d)	None of these	0,00
xvi)	whi	nich of the following code is used to ge ect in servlets	t an attribute in a HTTP session
	a)		10 STO.
	b)	session alter Attribute (String name)	
	c)	session, undate Attribute (string name)	
	d)	session, and Attribute (string har	ne)
	u)	session. set Attribute (string name)	8.
		-0309mg	•

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xvii) Which of the following are/is advantages of packages?

- a) Classes, even though they are visible outside their package, can have fields visible to package only.
- b) Packages avoid name classes
- c) We can have classes that are used by the packages, but not visible outside
- d) All statements are correct

xviii)The Java _____ specification defines an application programming interface for communication between the web server and the application program.

a) Servlet

b) Server

c) Program

d) Randomize

xix) What happen in case of multiple catch block?

- a) Either super or subclass can be caught first.
- b) The super class exception must be caught first.
- c) The super class exception cannot caught first
- d) None of these

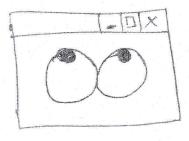
xx) Order of execution of constructors in Java inheritance is

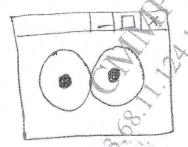
- a) Base to derived class
- b) Derived to base class

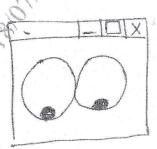
c) Random order

d) None of these

Write a panel class Eyepanel and any other classes you need, such as event depending on whether the mouse cursor is above, inside, or below the eyes. The following three screen shots show the eyes in each of three positions;







b)	Write a program to draw a house in Java. [3]
	ORS
a)	Write a swing program for designing notepad and performing relevant
	actions like cut, copy, select all and etc. [6]
b)	Write a program to design login form with proper validation. [4]
Q3) a)	Design a following phone book application in JSP for accepting employee
	details like: first name, last name, city name and email Id and save it in
	database Perform following operations:-
	i) record in database
	ii) retrieve all records in database
	iii) update a record from database
	iv) delete a record from database
b)	Differentiate between JSP and servlet. [4]
	OR OR
a)	Write a servlet program for accepting student detail. Display proper/
	message if invalid data is intered like name left blank and negative phone
	number, using MgSQL store the values in the table stud (Name, Address,
	Phone, Email) if valid data is entered for all the fields and perform the
	various operations like Add, Delete, Next and previous. [8]
b)	Explain types of driver in java. [4]
Q4) a)	Differentiate between Array list and Linked list. [5]
b)	Explain thread life cycle.
	OR
a)	What is Hashing in collection Framework. [5]
b)	Differentiate between run time and compile time polymorphism. [3]
Q5) a)	How accessors and Mutators methods are used? [4]
b)	What is thread synchronization? [3]
c)	Write a Java program for mobile number validation using regex. [3]
2 8 2 8	OR
a)	Explain shallow cloning and deep cloning [4]
b)	Explain how deadlock can be avoided in thread.
c)	What is object serialization? [3]
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