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NATIONAL INSTITUTE OF SPEECH & HEARING, December, 2019

SEVENTH Semester BSc (Computer Science) (HI) Degree Examination [2013 Scheme]

702 – JAVA PROGRAMMING

Maximum Marks: 75 Duration: 3 Hours

		20.000 21.00.				
UNIT I						
I.	Choose the correct answer	$10 \times 1 = 10 \text{ marks}$				
1.	JDK stands for					
	a) Java Design Kit	b) Java Dialog Kit				
	c) Java Debugging Kit	d) Java Development Kit				
2.	Java compiler translates source code in	nto				
	a) Machine Code	b) Bitcode				
	c) Bytecode (Virtual Machine Code)	d) User code				
3.	Package of drawstring () method is					
	a) java.applet	b) java.io				
	c) java.lang	d) java.awt				
4.	Method overloading is an example of _					
	a) encapsulation	b) polymorphism				
	c) reuse	d) Inheritance				
5.	The classes and methods needed to run Java programs are part of					
	a) JVM	b) JDK				
	c) API	d) javah				
6.	awt stands for					
	a) abstract windowing toolkit	b) abstract window technology				
	c) abstract working tools	d) auto window toolkit				

c) 8. Tr a)	overloading interface ry-catch is used for method overloading polymorphism	b) inheritanced) threadingb) exception handd) threading	dling	
8. Tr	ry-catch is used for method overloading polymorphism	b) exception hand	dling	
a)	method overloading polymorphism	, <u>-</u>	dling	
	polymorphism	, <u>-</u>	dling	
c)		d) threading	8	
ŕ				
9. A	constructor will have			
a)	the name of the class	b) the name of th	ie object	
c)	the name of the inherited class	d) any name		
10. W	hich is the default package of all Java p	rograms?		
a)	java.applet	b) java.io		
c)	java.lang	d) java.awt		
II. Fi	ll up the blanks.		$5 \times 1 = 5 \text{ marks}$	
11. Th	ne command used to compile a java prog	gram is		
12. A	A function that does not return anything has a return type			
13. Variables, methods or constructors declared as cann				
ac	cessed anywhere outside its own class.			
14. Sc	canner in = Scanner (in);		
15. Th	ne command line arguments are stored i	in the variables	·	
III. St	ate whether True or False.		$5 \times 1 = 5 \text{ marks}$	
16. JV	JVM is platform independent.			
17. Th	The value of a variable declared as final can be changed.			
18. Ja	Java does not support global variables.			
19. A	A constructor is not a member function of the class.			
20. Ar	n applet does not have main() method.			
	UNIT II			
IV. W	rite the syntax for the following wi	th <u>example</u> .	$5 \times 2 = 10 \text{ marks}$	
21. Tv	vo dimensional array			
22. if-	else			
23. Fo	or			

- 24. Switch case
- 25. HTML Applet Tag

UNIT III

V. Answer all questions.

 $5 \times 1 = 5 \text{ marks}$

- 26. What are packages in Java?
- 27. List out the features of OOPs.
- 28. What is the use of drawstring () in Java applet?
- 29. What is JVM?
- 30. Name the types of error (syntax, runtime or logical error) in each of the following case given below:
 - (i) Division by a variable that contains a value of zero.
 - (ii) int a[] = new int[6];

a[7] = 14;

UNIT IV

VI. Define and differentiate the following

 $5 \times 2 = 10 \text{ marks}$

- 31. Applications and Applets
- 32. Extends and Implements
- 33. Platform dependent and Platform Independent
- 34. 1D array and 2D arrays
- 35. Source code and Byte code

VII. Answer any <u>FIVE</u> questions.

 $5 \times 2 = 10 \text{ marks}$

- 36. What is an exception? What are the different types of exceptions in Java? How are they handled? Explain.
- 37. Describe the life cycle of an applet. Explain the different methods used.
- What is meant by command line arguments? Write a program to read two numbers as command line arguments and find their product.
- 39. What are constructors? Write an example.
- 40. Compare Java and C++
- 41. What is the use of Java AWT package? Explain.
- 42. Which are the three types of comments used in Java?

43. Explain with a neat diagram the steps of creating and executing a Java program.

VII. Answer any <u>TWO</u> of the following.

 $2 \times 10 = 20 \text{ marks}$

- 44. Write a Java program to find the factors of a given integer.
- 45. Write a program to find the number of vowels in a character array.
- 46. Write a program to find the largest and smallest values in an array of numbers.
- 47. Write a program to multiply two matrices.