B.Sc. (Part—II) Semester-III Examination 3S: COMPUTER APPLICATION (VOC.) (OOPS with Java Programming)

(New)

					(Hew)				
Time: Three Hours]				s]			[Maximum	Marks: 80	
Not	e :	(1)	Λll	questions are compul	sory.				
		(2)	Que	estion Nos. 2 to 13 c	arry equal marks.				
		(3)	Ass	ume suitable data wh	erever necessary.				
1.	(A)	Fill in the blanks:							
		(i)	The	output of the Java c	ompiler is executed	by 1	the		
		(ii)	A is a collection of classes and interface.						
		(iii)	It is	It is possible to throw an exception explicitly using statement.					
		(iv)	clas		which object of one	clas	ss acquires the properties	of another 2	
	(B)	Cho	ose t	he correct alternative	es:				
		(i)	Λtl	hread can be created	by using cla	SS.			
			(a)	Multithread		(b)	Thread		
			(c)	Threading		(d)	Super Thread		
		(ii)	Which of these function is called to display the output of an applet?						
			(a)	Display()		(b)	Paint()		
			(c)	Display Applet()		(d)	Print Applet()		
		(iii)	Wh	ich of these can be o	overloaded?				
			(a)	Method		(b)	Constructors		
			(c)	Both (a) and (b)		(d)	None of the above		
		(iv)	Wh	ich is not a valid typ	e of variable?				
			(a)	Global variable		(b)	Local variable		
			(c)	Class variable		(d)	Instance variable	2	
	(C)	Ans	wer	in one sentence:					
		(i)	Wh	at is byte code?					
		(ii)	Wh	at is casting?					
		(iii)	Wh	at is abstract method	1?				
		(iv)	Wh	at is Applet?				4	
2.	(a)	Explain the Java environment with suitable example.						6	
	(b)	b) What are various Java features? Explain it.							
					OR				
3.	(a)	Exp	olain	the history of Java.				6	
	(b)	Exp	olain	Object Oriented Prog	gramming paradigm.			6	
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4.	(a)	Explain switch statement with suitable example.		
	(b)	Write a Java program for Fibonacci series:		
		(1 1 2 3 5 8 13 21 34)	6	
		OR		
5.	(a)	Write a Java program for sum and average of "n" natural numbers.	6	
	(b)	Explain looping control structure of Java with suitable example.	6	
6.	(a)	Explain overriding method in inheritance.	6	
	(b)	How data members of an object can be initialized? Explain with example.	6	
		OR		
7.	(a)	Explain the concept of method overloading with suitable example.	6	
	(b)	Explain the following:		
		(i) This		
		(ji) Final modifier.	6	
8.	(a)	What is string? Explain string declaration and creation with example.	6	
	(b)	How to add a class to a package? Explain with suitable example.	6	
		OR		
9.	(a)	Write a program in Java to find smallest and largest element of an array.	6	
	(b)	What is package? Explain how packages are creating and importing with exam	iple. 6	
10.	(a)	State and explain life cycle of thread.	6	
	(b)	What is the need of exception handling? Explain with example.	6	
		OR		
11.	(a)	Explain the following:		
		(i) Throw		
		(ii) Throws		
		(iii) Finally.	6	
	(b)	How to create your own exception? Explain.	6	
12.	(a)	Explain the following:		
		(i) Applet tag.		
		(ii) Frame.	6	
	(b)	Explain Running state, Dead state and Display state of Applet life cycle.	6	
		OR		
13	. (a)	Explain the procedure of writing applets.	6	
	(b)	Explain the procedure for running of applet program.	6	