M.Sc. (Part-I) Semester-II (CBCS Scheme) Examination

COMPUTER SCIENCE

Paper-2 MCS 1 Java Programming

Time : 7	Three Hours Maximum M	arks : 80		
Note:—(1) Illustrate your answers with the help of suitable examples/diagrams wherever necessary.				
	(2) Assume suitable data wherever necessary.	,		
1. (A)	What is the necessity of break and continue statement? Explain.	6		
(B)	Describe and compare while and for loops provided by Java.	8		
OR				
2. (A)	Explain the purpose of switch statement. Write suitable program.	7		
(B)	Describe the scope and lifetime of variables in Java. Give examples.	7		
3. (A)	Explain the structure of Java class with suitable example.	7		
(B)	How objects can be passed to a method? Explain with suitable example.	7		
	OR			
4. (A)	What is constructor? Explain all its variants.	7		
(B)	What is Recursion? How is it implemented in Java? Give suitable example.	7		
5. (A)	Explain:			
	(i) Abstract class			
	(ii) Command Line argument	6		
(B)	What is package? How to create and use it? Explain.	7		
	• OR			
6. (A)	What is meant by run-time polymorphism? Explain with suitable example.	7		
(B)	Explain with example:			
	(i) super			
	(ii) this			
	(iii) final.	6		
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7.	(A)	Write an applet for displaying a square embedded in a circle.	7
	(B)	Explain in brief the color and font class.	6
		OR	
8.	(A)	Describe the HTML APPLET tag with example.	7
	(B)	Describe in brief the AWT class.	6
9.	(A)	Explain the following methods of Thread class:	
		(i) join	
		(ii) sleep	
		(iii) start	
		(iv) isAlive.	8
	(B)	Describe Java's way of handling errors.	5
		OR	
10.	(A)	Explain in brief I/O classes of Java.	6
	(B)	What is meant by synchronization? How do you achieve it in Java? Explain.	7
11.	(A)	Write an applet demonstrating handling of mouse events.	7
	(B)	Explain the controls: Label, TextArea, Checkbox.	6
		OR	
12.	(A)	What is delegation event model? Explain.	7
	(B)	Explain List control. Describe all constructors of List class.	6