CBCS SCHEME

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BPLCK205C/ BPLCKC 205

Second Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Basics of Java Programming

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Describe the structure of Java Programming.	6	L1	CO1
	b.	Explain in detail, about the four groups of primitive types of data.	10	L1	CO1
	c.	Write Java program to initialize and display different type of integer and floating point variables.	4	L2	CO1
		OR			
Q.2	a.	Explain Type Conversion with an example.	6	L2	CO1
	b.	Explain different ways of array declaration with syntax.	6	L2	CO1
	c.	Explain the concept of object oriented programming. (i) Encapsulation (ii) Inheritance (iii) Polymorphism (iv) Data Abstraction	8	L2	CO1
		Module – 2			
Q.3	a.	Explain the operation of the following operator with example. (i) % (ii) >>> (iii) && (iv) ?	8	L2	CO3
	b.	Write a JAVA program to sort list of elements in ascending and descending order.	12	L3	CO1
		OR			
Q.4	a.	Write a program to calculate the average among the element {8, 4, 1, 2} using 'for each' in JAVA. How for each is differ from for?	10	L3	CO1
	b.	List and explain Java Selection Statements in detail with example.	10	L2	CO1
		Module – 3			
Q.5	a.	What is constructor and parameterized constructors? Explain in detail with example. Write a program for constructor to use 'this' keyword.	10	L2	CO1
	b.	Develop a JAVA program demonstrating method overloading and constructor overloading.	10	L3	CO1
		OR			
Q.6	a.	Discuss the following terms in detail with example : (i) static (ii) final (iii) finalize ( )	10	L2	CO3

	b.	Define function overloading. Develop a program to define three overloaded function to find sum of two integer and sum of two floating point number.	**10**	**L3**	**CO3**
		Module – 4			
Q.7	**a.**	Define inheritance. How super key is used in inheritance? Explain two general form of super key.	**10**	**L1**	**CO3**
	b.	Explain the concept of method overriding in JAVA programming with example.	**10**	**L3**	**CO3**
		OR			
Q.8	**a.**	Illustrate with example a super class variable reference a subclass object.	**10**	**L2**	**CO3**
	b.	Explain multilevel hierarchy with an example program. Give the usage of final with inheritance.	**10**	**L2**	**CO3**
		Module – 5			
Q.9	**a.**	Describe the various level of access protection available for packages and their implications.	**10**	**L2**	**CO4**
	b.	Give the basic form of an exception handling block.	**5**	**L1**	**CO4**
	c.	What is the importance of the clause finally?	**5**	**L1**	**CO4**
		OR			
Q.10	**a.**	Define exception. Write a JAVA program which contain one method which will throw Illegal Access Exception and use proper exception handler so that exception should be printed.	**8**	**L3**	**CO4**
	b.	Define Package. What are the steps involved in creating user defined package with an example.	**8**	**L3**	**CO4**
	c.	Explain chained exception in JAVA.	**4**	**L2**	**CO4**

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