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Paper Code: BCAC301 Object Oriented Programming

Time Allotted: 3 Hours Full Marks:70

> The Figures in the margin indicate full marks. Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

```
1. Answer any ten of the following:
                                                                                                                  [1 \times 10 = 10]
         What is aggregation?
         (II) What is Inheritance?
         What is the name of the Java file containing the following program?
             import myLibrary.*;
             public class ShowSomeClass
             // Code of the class...
        (IV) What is bytecode?
        what is default access specifier?
        (VI) What is the difference between 'Exception' and 'error' in java?
        What is link?
       (VIII) What is Data hiding?
        (IX) What is the difference of Object and Object reference?
        int values[] = {1, 2, 3, 4, 5, 6, 7, 8};
            for(int i=0; i<X; ++i)
            System.out.println(values[i]);
            Referring to the above, what value for X will print all members of array "values"?
       (XI) What is Message Passing?
      (XII) What will be the output of the following code segment?
           public class Trial
           int x;
           public static void main(String args[])
           x = 8:
           System.out.println(x);
          }
                                             Group-B (Short Answer Type Question)
                                                 Answer any three of the following
                                                                                                                        [5 \times 3 = 15]
 Differentiate major and minor elements with example.
                                                                                                                                  [5]
 3. Write differences between Object Oriented Programming and other conventional programming?
                                                                                                                                  [5]
 4. What is an exception? Explain with an example, how exceptions are handled in java?
                                                                                                                                  [5]
 5. Distinguish between Abstract class and Interface.
    "Java does not support destructors", Discuss. What is 'this' keyword? Explain with an example.
                                                                                                                                   [5]
                                                                                                                                   [5]
                                            Group-C (Long Answer Type Question)
                                                Answer any three of the following
                                                                                                                         [15 \times 3 = 451]
7. (a) Differentiate Generalization and Specialization with example.
   (b) Explain Degree of an Association with example.
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	((Explain Cardinality Ralations of Associations with example.	
8.	(6	Explain polymorphism with suitable example.	[4]
	(b	What are the advantages and disadvantages of OOP?	[5]
9.	(C	Explain differences between Abstraction and Encapsulation.	[5]
	(a	What is thread?	[5]
	(b) How do we set the priorities for thread? Describe with an example.	[2] [8]
	(C	Write a small program which will synchronize among two threads.	[5]
10.	(a	Explain method overloading with example.	[8]
	(b)	Explain Autoboxing and Unboxing with example.	[7]
11.		What are the uses of exception handling in JAVA?	[2]
			[4]
	(c)		[6]
	(d)	What do you mean by 'Synchronization'? Why do we need it?	[3]

··· END OF PAPER ···

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