

QP Code : 3072

OLD COURSE

(3 Hours)

[Total Marks :100]

- N.B.:** (1) Question No. 1 is Compulsory  
(2) Solve any Four questions out of remaining.

1. (a) What is main thread? [4]  
(b) Explain the term Robustness and portability in Java. [4]  
(c) Explain System.arraycopy () used in Java Programming. [4]  
(d) Explain Bitwise and logical operator with example. [4]  
(e) Explain the structure of java virtual machine [4]
2. (a) Explain the role of wrapper class. [5]  
(b) Explain method overriding with example [5]  
(c) What is vector? Explain any five methods of vector. [5]  
(d) Write a program to demonstrate packages in java [5]
3. (a) Write a program to demonstrate call by value to swap two numbers. [5]  
(b) WAP to find the roots of a quadratic equation [5]  
(c) WAP to check whether the entered number is Armstrong or not [5]  
(d) Describe multidimensional array [5]
4. (a) Write a program to display following tree. [5]  

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1234
 123
   12
    1

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(b) Explain multilevel inheritance with suitable example. [5]  
(c) Write a program to display whether a input number is prime or not. [5]  
(d) Write a program for matrix addition. [5]
5. (a) WAP in java interchange the values of two numbers using command line argument. [10]  
(b) WAP in java to check whether entered character is lower case, upper case, numeric (Use if-else). [5]  
(c) WAP to demonstrate parameter passing to Applet [5]
6. (a) What is exception? Explain the exception handling in java with suitable example [10]  
(b) Write a program to Demonstrate method overloading & constructor overloading. [10]
7. (a) Explain interface. How to implement an interface? Explain with example. [5]  
(b) Create an applet that displays "All the Best". [5]  
(c) Explain what are Abstract Class and Abstract Methods. [5]  
(d) WAP to count frequency of a word in a sentence [5]

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**QP-Con. 10145-15.**