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UG/2nd Sem/Comp/H/19 (Pr.)

2019

B.Sc.

2nd Semester Examination

COMPUTER SCIENCE (Honours)

Paper - C3P

(Java Programming)

[Practical]

Set - 1

Full Marks : 20

Time : 2 Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

Answer any *one* questions lottery basis.

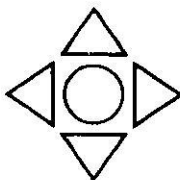
1. Write a Java program to find the factorial of a given number.

( 2 )

2. Write a Java program to demonstrate priorities among multiple threads.
3. Write a Java program to convert a decimal to binary number.
4. Write a Java program to show function overloading.
5. Write a Java program to find the sum of any number of integers entered as command line arguments.
6. Write a Java program to show function overriding and use of final keyword.
7. Write a Java program to show the difference between public and private access specifiers.
8. Write a Java program to check if a number is prime or not, by taking the number as input from keyboard.

( 3 )

9. Write a Java program to check whether a string is palindrome or not.
  
10. Write a Java program to use an abstract class.
  
11. Write a Java program to convert binary to decimal number.
  
12. Write a Java applet to draw the following figures :



13. Write a Java applet which will read five numbers through applet and find their maximum.

( 4 )

14. Write a Java program to print the following :

```
  *
 * *
* * *
* * * *
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15. Write a Java program to show the use of  
"THROWS" and "FINALLY" keyword. 1×15

Practical Note book : 2 Marks

Viva-Voce : 3 Marks

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2019

B.Sc.

2nd Semester Examination

**COMPUTER SCIENCE (Honours)**

**Paper - C3P**

**[Practical]**

**Set - 2**

Full Marks : 20

Time : 2 Hours

*The figures in the margin indicate full marks.  
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in their own words as far as practicable.*

Answer any *one* questions lottery basis.

1. Write a program in Java to perform Matrix Multiplication.
2. Write a program in Java to overload the Add function. So that it performs addition of 2 integers, 2 floating point numbers and concatenation of 2 strings.

( 2 )

3. Write a program in Java to find the sum of any number of floating point numbers interactively, i.e. as command line arguments.
  
4. Write a program in Java to find the factorial of a number using recursion.
  
5. Compare 2 strings s1 and s2 to check if s1 is less than, equal to or greater than s2. Concatenate the two strings, replace each 'a' with 'e' and find the length of the final string.
  
6. Write a program that takes two numbers a and b as input, computes a/b, and involves Arithmetic Exception to generate a message when the denominator is zero.
  
7. Write a program in Java to create 3 child threads from the main thread, assign different priorities to them and count and print 1-10 in each thread.
  
8. Write a program in Java to show Autoboxing and Autounboxing.

9. Write a program to create a multilevel package and also create a reusable class to generate Fibonacci series, where the function to generate fibonacci series is given in a different file belonging to the same package.
10. Write a Java program to check give string palindrome or not ?
11. Write a program to show the use of nested try statements that emphasizes the sequences of checking for catch handler statements.
12. Write a Java program to demonstrate the concept of boxing and unboxing.
13. Write a Java program to demonstrate different keyboard handling events.
14. Write a Java program to implement of multi-level inheritance.

( 4 )

15. Write a applet program to draw the figure.



Practical Note book : 2 Marks

Viva-Voce : 3 Marks

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