

MCA 3rd Semester Examination, 2022

JAVA LAB

PAPER – MCA-396

(Practical)

Full Marks : 100

Time : 3 hours

The figures in the right hand margin indicate marks

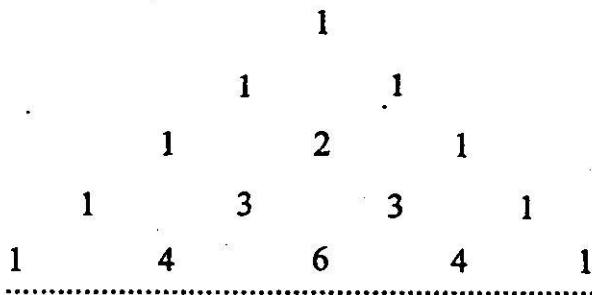
Candidates are required to give their answers in their own words as far as practicable

Answer any two questions : 35 × 2

- 1. Write a program to check whether a given number is a prime number or not.**
- 2. Print the n th Fibonacci number using a program.**
- 3. Write a program to check whether a given number is a perfect square or not.**

(Turn Over)

4. Calculate the average of numbers given through the command line using a Java program.
5. Print the following pyramid using a program. Give the number of rows as an input.



6. Write a program to calculate the GCD of two given numbers.
7. Print the following statistics from a given String using a Java program :
 - (a) Number of lowercase characters
 - (b) Number of spaces
 - (c) Number of digits.

8. Write an applet program to display a rectangle and an ellipse. Write your name at the middle of the applet with any suitable colour.
9. Write a program that illustrates function over-riding.
10. Write a program that illustrates abstract class.
11. Write a program that illustrates JAVA servlet.
12. Write a program that illustrates multithreading.

[P.N.B — 10]

[Viva — 20]
