

**BCA [Honours]**

**[CBCS]**

**B.Sc. Fifth Semester End Examination-2023**

**(Regular & Supplementary Paper)**

**(Practical)**

**PAPER- DSE1P**

**[Artificial Intelligence Lab]**

*Full Marks: 20*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

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

*Illustrate the answers wherever necessary*

**Answer any one questions :**

**1x15= 15**

1. Write a prolog program that check a given number is odd or even.
2. Write a prolog program to find the minimum out of n given list of number.
3. Write a prolog program to calculate sum of n given number.
4. Write a prolog program to print Fibonacci series.
5. Write a program to check a list is palindrome or not.
6. Write a program to print the square series upto n
7. Print the following pyramid depends on line –

If line =4    A    A    A    A  
                  A    A    A  
                  A    A  
                  A

- 8. Write a program in prolog to find GCD and LCM out of two given number.
- 9. Print the following series in prolog –  
2, 4, 6, 8, 10
- 10. Write a prolog program to search a element within a given list.
- 11. Write a program that count number of element in a given list.
- 12. Print the following pyramid. Depends on line.

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*    *  
*    *    *  
*    *    *    *
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Viva - 03

PNB - 02