K22U 3687

Reg. No. : .....

Name : .....

Fourth Semester B.Sc. Degree (CBCSS – OBE – Regular) Examination, April 2022
(2020 Admission)
Complementary Elective Course (For B.Sc. Life Sciences (Zoology) and Computational Biology)
4C04 CSC – ZCB : COMPUTATION USING PYTHONS

Time : 3 Hours

Max. Marks : 32

PART – A
(Short Answer)

Answer **all** questions.

1. Who developed Python Programming Language ?
2. What will be the value of the following Python expression ?

   4 + 3% 5
3. Which keyword is used for function in Python language ?
4. Object and class attributes are accessed using _____ notation in Python.
5. Which of the following is not the parameter of Pyplot's plot() method ?

   a) Marker
   b) Lineheight
   c) Linestyle
   d) Color

(5×1=5)

PART – B
(Short Essay)

Answer **any 4** questions.

6. Explain string slices in Python.

P.T.O.

7. What are the different methods to Run Python ?

8. What is encapsulation ?

9. Differentiate between recursion and iteration.

10. What is the output of following code ?

```
int intvar = 333;
int * intptr;
intptr =&intvar
cout <<*intptr;
```

11. Define overflow and underflow errors occur in programming. **(4×2=8)**

PART – C

(Essay)

Answer **any 3** questions.

12. Write a Python program to perform linear search.

13. Define inheritance.

14. Write a Python program to reverse a number.

15. Why NumPy is faster than List ?

16. Mention five benefits of using Python. **(3×3=9)**

PART – D

(Long Essay)

Answer **any 2** questions.

17. Explain the control statements in Python.

18. Write a Python programme for finding the product of two matrices.

19. What are the basic list operations that can be performed in Python ? Explain each operation with its syntax and example.

20. Describe about Handling Exceptions in detail with examples. **(2×5=10)**