Reg. No. : | | | | | | | | | | |

Question Paper Code: 95703

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Fifth Semester

Mehanical Engineering

19UME503 – OBJECT ORIENTED PYTHON PROGRAMMING

(Regulation 2019)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is used to take input from the user? CO1- U

   (a) input( ) (b) int( ) (c) id( ) (d) iter( )

2. Which of the following is not a core data type in Python programming? CO1- U

   (a) Tuples (b) Lists (c) Class (d) Dictionary

3. Which of the following items are present in the function header? CO1- U

   (a) function name (b) keyword (c) parameter list (d) all the above

4. Which of the following keywords marks the beginning of the function block? CO1- U

   (a) def (b) define (c fun (d) All the above

5. Which function is used for transpose of an array in Numpy? CO1- U

   (a) sum (b) T (c) matmul (d) dot

6. Which of the following syntax is used for package? CO1- U

   (a) __str__ (b) __init__ (c) __len__ (d) __del__

7. _____ is not a keyword, but by convention it is used to refer to the current instance (object) of a class. CO4- U

   (a) class (b) def (c) self (d) init

8. Which of the following is not an OOPS concept? CO4- U

   (a) Encapsulation (b) Polymorphism (c) Exception (d) Abstraction

9. Which function open file in python? CO5- U

(a) open( ) (b) OpeN( )

(c) Open( ) (d) OPEN( )

10. Which of the following string format is used for center alignment CO5- U

(a) : > (b) : < (c) : ^ (d) : =

PART – B (5 x 6= 30 Marks)

Answer any five of the following Questions

11. Define operators and explain briefly about types of operators. CO1- U

12. Compare tuples and list with examples. CO1- U

13. Explain briefly about functions with example. CO1- U

14. Explain any five built-in-functions with examples. CO1- U

15. Write a program to print current time, make it to halt for 10 seconds and again print the time. CO2- App

16. Write a python program for the following. CO2- App

(i) To find the square root for 144 using python math.

(ii) Using python random module to shuffle the below list and print the original list and shuffled list.

List1 = [1, 2, 3, 4, 5, 6, 7]

17. Explain briefly about inheritance with example. CO1- U

18. Explain briefly about File Handling. CO1- U

PART – C (5 x 10= 50 Marks)

Answer any five of the following Questions

19. Write a python program to find the length of the lists, form matrix from the lists and find the first column of the matrix from the given lists. List1 = [10,11,12]; List2 = [13,14,15]; List3 = [16,17,18] CO2-App (10)

20. Write a program to perform Addition, Subtraction, Multiplication, Division, Modulus Division and Floor Division on two integer numbers (9,6) and floating point numbers (10.7,6.3). CO2-App (10)

21. Write a python program to print cube of all numbers from 5 to 15 and CO2-App (10)

when cubed value reaches 1000 using While Loop.

22.	Write a python program for creating a multiplication table for first 10 numbers using For Loop.	CO2-App	(10)
23.	Create a 3D array using NumPy program and also do the addition and transpose of that array.	CO2-App	(10)
24.	Write a NumPy program to create a 3x3 matrix with values ranging from 2 to 10 and show the output as 3D array.	CO2-App	(10)
25.	Write a program for creating class student with rollno, name and age using __init__ method.	CO2-App	(10)
28.	Write a program to read a text file and rewrite as "Hello Welcome to MECH".	CO2-App	(10)