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Question Paper Code: 95703

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Fifth Semester

Mechanical 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 when cubed value reaches 1000 using While Loop. CO2-App (10)

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)

