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**Question Paper Code: 95703**

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

Fifth Semester

Mechanical Engineering

19UME503 – OBJECT ORIENTED PYTHON PROGRAMMING

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

- \_\_\_\_\_ is the syntax used to get the input from the user. CO1- U  
(a) input( )                      (b) int( )                      (c) id( )                      (d) iter( )
- Write the output of the following Python function. CO1- U  
len(["hello", 2, 4, 6])  
(a) Error                      (b) 3                      (c) 6                      (d) 4
- 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
- Which of the following function header(s) is/are correct? CO1- U  
(a) def area (a = 1, b):                      (b) def area (a = 1, b, c = 2):  
(c) def area (a = 1, b = 1, c = 2):                      (d) All the above
- Output of round (4.576) is \_\_\_\_\_. CO1- U  
(a) 4.5                      (b) 5                      (c) 4                      (d) 4.6
- \_\_\_\_\_ function is used for transpose of an array in Numpy. CO1- U  
(a) sum                      (b) T                      (c) matmul                      (d) dot
- \_\_\_\_\_ is reference for an object. CO4- U  
(a) class                      (b) def                      (c) self                      (d) init

8. \_\_\_\_\_ defines the constructor method. CO4- U
- (a) def \_\_init\_\_ (title, author): (b) def \_\_init\_\_ (self, title, author):  
 (c) def \_\_init\_\_ ( ): (d) \_\_init\_\_ (self, title, author):

9. Which statement will read 5 characters from a file object 'f'? CO5- U
- (a) f.read( ) (b) f.read(5) (c) f.reads(5) (d) f.reading(5)

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)

11. Define operators and explain briefly about types of operators. CO1- U
12. Explain briefly about functions with example. CO1- U
13. Explain about different queue types with proper syntax. CO1- U
14. Explain briefly about inheritance with example. CO1- U
15. Explain briefly about Except Handling. CO1- U

PART – C (5 x 10= 50 Marks)

16. (a) 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)

Or

- (b) Construct a dictionary with keys as Roll Nos. 101,102,103,104 and values as marks 64,45,78,59. CO2-App (10)
- (i) Print the roll no for 104  
 (ii) There was a mistake in the marks of Roll no 102, kindly add 5 marks  
 (iii) Call all marks of the students

17. (a) 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)

Or

- (b) Define a function that create the list of roll numbers for present students and write another function to check the status of the students attendance by giving their roll no.  
List of Roll No: 101, 102, 104, 105, 107, 108  
Attendance checking Roll No: 102, 111
- CO2-App (10)
18. (a) Write a python queue program for the range of 11 to 20 and returns last in first out. CO3- App (10)
- Or
- (b) Write a python queue program for the input of 8, 10, 14, 7, 9, 2 and returns priority. CO3- App (10)
19. (a) Write a Python Program to get the input of number of items and value of the item and determine the total cost of the items. CO4- App (10)
- Or
- (b) Write a program to create inheritance for derived function from addition (addition of two numbers) and multiplication (multiplication of two numbers) class to division class (division of two numbers). CO4- App (10)
20. (a) Write a program to read a text file and rewrite as “Hello Welcome to MECH”. CO4- App (10)
- Or
- (b) Write a simple exception handling program for list addition. CO4- App (10)  
List1 = [100, 200, 300, "400", 500]  
List1 = [100, 200, 300, 400, 500]

