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Question Paper Code: U5703

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

Fifth Semester

Mechanical Engineering

21UME503 – OBJECT ORIENTED PYTHON PROGRAMMING

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10 x 2 = 20Marks)

- _____ is the correct extension of the Python file. CO1-U
(a) .python (b) .pi (c) .py (d) .p
- Write the output of the following Python function.`len(["hello", 2, 4, 6])` CO2 -App
(a) Error (b) 3 (c) 6 (d) 4
- _____ is a built-in function in python. CO1- U
(a) fact() (b) print() (c) power (d) squareroot()
- _____ is the keyword used to specify the definition of the function. CO1-U
(a) def (b) define (c) fun (d) function
- Brief the queue type LIFO CO1-U
(a) 4.5 (b) First in first out (c) First in last out (d) Last in first out
- Which of the following file is used for package? CO1-U
(a) __str__.py (b) __init__.py (c) __len__.py (d) __del__.py
- How many objects and reference variables are there for the given Python code? CO4-App
class A:
 print("Inside class")
A()
A()
obj=A()
(a) 2 and 1 (b) 3 and 3 (c) 3 and 1 (d) 3 and 2
- Which of the following is not an OOPS concept? CO1-U
(a) Encapsulation (b) Polymorphism (c) Exception (d) Abstraction

9. What will be output for the following code? CO4 - App

```
try:  
print(x)  
exceptNameError:  
print("Variable x is not defined")  
except:  
print("Something else went wrong")
```

(a) x (b) Something else went wrong (c) Error (d) Variable x is not defined

10. Which statement will read 5 characters from a file object 'f'? CO1 - U

(a) f.read() (b) f.read(5) (c) f.reads(5) (d) f.reading(5)

PART – B (5 x 6= 30Marks)

11. Compare tuples and list with syntax & examples. CO1 - U

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

13. Write a python program using python random module to shuffle the below list and print the original list and shuffled list. CO3 - App

```
List1 = [1, 2, 3, 4, 5]
```

14. Define a class triangle using breadth and height and compute the area of triangle using constructor method. Take breadth = 10cm, height = 25cm. CO1 - U

15. Explain briefly about Except Handling. CO1 - U

PART – C (5 x 10= 50Marks)

16. (a) Construct a dictionary with keys as Roll Nos. 101,102,103,104 and values as marks 64,45,78,59. CO2 - App (10)

(a) Print the roll no for 104

(b) There was a mistake in the marks of Roll no 102, kindly add 5 marks

(c) Call all marks of the students

Or

(b) Write a Python program to create a dictionary of keys x, y, and z where each key has as value a list from 11-20, 21-30, and 31-40 respectively. CO2 - App (10)

(a) Access the fifth value of each key from the dictionary.

(b) Update the dictionary with the key 'w' has the value of list from 41-50.

(c) Call all the values from w, x, y and z.

17. (a) Write a python program for creating a multiplication table for first 10 numbers using For Loop. CO2 - App (10)
- Or
- (b) Write a python program to print cube of all numbers from 5 to 15 and stop when cubed value reaches 1000 using While Loop. CO2 - App (10)
18. (a) Write a python queue program for the range of 8 and returns first in first out. CO3 - App (10)
- Or
- (b) Write a python queue program for the range of 11 to 20 and returns last in first out. 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 for creating class student with rollno, name and age using constructor method. 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]

