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Question Paper Code: 94C06

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

Fourth Semester

Computer Science and Business Systems

19UCB406 - PYTHON PROGRAMMING

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. What will be the output of the following code fragment? CO3- Ana

```
for val in "string":  
    if val=='i':  
        break  
    print(val)  
print('end')
```

(a) s t r e n d (b) s t r i n g e n d (c) s t r n g e n d (d) e n d
2. What will be the output of the following code fragment assuming num is 10? CO3- Ana

```
num=10  
if num==20:  
    print('Apple')  
    print('Grapes')  
print('No Output')
```

(a) Apple (b) Grapes (c) Apple Grapes (d) No Output
3. What is the output of the following program : CO1- U

```
Y=8  
  
z=lambda x: x*y print(z(6))
```

(a) 48 (b) 14 (c) 64 (d) Error
4. Which of the following function header is correct? CO1- U

(a) def Demo(P,Q=10): (b) def Demo(P=10,Q=20):
(c) def Demo(P=10,Q) (d) Both a and b

5. Which of the following is mutable object in python? CO1- U
 (a) Tuple (b) Bool (c) Int (d) List
6. What type of data is: a=[(1,1),(2,4),(3,9)]? CO1- U
 (a) Array of tuples (b) List of tuples (c) Tuples of lists (d) Invalid type
7. What will be the output of the following statement if the user has entered CO3- Ana
 20 as
 value of x
 x=input('Enter Number:')
 print(10+x)
 (a) 1010 (b) 20 (c) 30 (d) Error
8. Which of the following is a valid input() statement ? CO1- U
 (a) x=input(Enter Number) (b) x= Input(Enter Number)
 (c) x=input('Enter Number') (d) x=Input('Enter Number')
9. T1 = (1) CO3- Ana
 T1 += 5
 print(T1)
 (a) Type Error (b) (1,5,3,4) (c) 1 (d) 6
10. Which of the following is immutable object in python? CO1- U
 (a) Tuple (b) String (c) Both (a) & (b) (d) List
- PART – B (5 x 2= 10 Marks)
11. List the different modes used in Python? CO1- U
12. How does a function work? Explain how arguments are passed and results are CO1- U
 returned?
13. Arrange the given List using sort [12,4,5,10,1]. CO2- App
14. What are the benefits of step size in a list? CO1- U
15. Write a Python script to check whether a given key already exists in a CO2- App
 dictionary

PART – C (5 x 16= 80 Marks)

16. (a) Write a program to implement python coding to implement searching (Binary and linear) and sorting (Insertion and Selection) CO1- U (16)
- Or
- (b) Write a python program to display details entered by a user i.e.name, Age, Gender and Height. CO1- U (16)
17. (a) Describe function prototype with example CO1- U (16)
- Or
- (b) Define Lamda Function? Explain in detail about Function Composition with example CO2- App (16)
18. (a) A musical album company has 'n' number of musical albums. The PRO of this company wishes to do following operations based on some scenarios:
Name of the album starts with 's' or 'S'.
Name of the album which contains 'jay' as substring.
Check whether the album name presents in the repository or not.
Count number of vowels and consonants in the given album name. CO2- App (16)
- Or
- (b) Write a program to count the frequency of characters using get() method of dictionary. CO2- App (16)
19. (a) Demonstrate with code the various operations that can be performed on list methods? CO1- U (16)
- Or
- (b) Outline in detail about Dictionary with example CO1- U (16)
20. (a) Explain in detail about string with example CO1- U (16)
- Or
- (b) Define List processing? List the different types of searching and sorting techniques with example? CO1- U (16)

