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Question Paper Code: 94C06

B.E. / B.Tech. DEGREE EXAMINATION, MAY 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 is the correct syntax for the print statement in python 3.0?. CO1- U
(a) print() (b) print (c) input() (d) None of the above
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. Function which is called by itself is CO1- U
(a) Declaration of function (b) Function definition
(c) Recursion (d) None of the above
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 20 as value of x
`x=input('Enter Number:')`
`print(10+x)`
 (a) 1010 (b) 20 (c) 30 (d) Error CO3- Ana
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)`
`T1 += 5`
`print(T1)`
 (a) Type Error (b) (1,5,3,4) (c) 1 (d) 6 CO3- Ana
10. What is the output when we execute
`list("hello")? A=((1,2),*7`
`Print(len(a[3:6]))`
 (a) 2 (b) 4 (c) 3 (d) error CO3- Ana

PART – B (5 x 2= 10 Marks)

11. Compare the difference between interpreter and compiler. CO1- U
12. How does a function work? Explain how arguments are passed and results are returned? CO1- U
13. Arrange the given List using sort [12,4,5,10,1]. CO2- App
14. Write a Python script to generate and print a dictionary that contains a number (between 1 and n) in the form (x, x*x). CO2- App
 Sample Dictionary (n = 5) :
 Expected Output : {1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
15. Write a Python script to check whether a given key already exists in a dictionary CO2- App

PART – C (5 x 16= 80 Marks)

16. (a) Explain in detail about operators in Python with example CO1- U (16)
 Or

- (b) Explain in detail about the various methods of conditional Constructs CO1- U (16)
17. (a) Explain in detail about Local and Global scope with separate example CO1- U (16)
- Or
- (b) Define Lamda Function? Explain in detail about Function Comp with example CO2- App (16)
18. (a) Explain the following terms in list CO2- App (16)
- (i) Max()
 - (ii) Min()
 - (iii) Del
 - (iv) clear()
- Or
- (b) Outline in detail about Dictionary with example CO2- App (16)
19. (a) Demonstrate with code the various operations that can be performed on list methods? CO1- U (16)
- Or
- (b) Explain in detail about string with example CO1- U (16)
20. (a) Create a list of five elements. Pass list to a function and print the contents of the list inside the function. CO1- U (16)
- Or
- (b) Define List processing? List the different types of searching and sorting techniques with example? CO1- U (16)

