PERIODIC II EXAMINATION 2021-2022 INFORMATICS PRACTICES (065) .10.2021

STD: XIC

INSTRUCTIONS:

- 1. All Questions are compulsory
- 2. Programming Language: Python
- 3. Paper is divided into 4 sections i.e MCQ, TYPE A, B AND C
- 4. MCQ Section contains 20 questions and carries 1 mark each
- 5. Type A contains Conceptual Based Questions
- 6. Type B contains Application Based Questions
- 7. Type C contains Programming Practice Questions Carries 3 marks each

MULTIPLE CHOICE QUESTIONS - 20 MARKS Q1. Python is a/an language 1 a) High Level b) Object Oriented c) Procedural d) Difficult The physical components of a computer are called..... Q2. 1 a) Software b) Hardware c) ALU d) CPU Q3. Select the shortcut key to execute the Python program 1 a) F1 b) F5 c) F3 d) F7 Q4. Which of the following are valid Identifiers? 1 a) my name b) _myname c) myname d) my-name Q5. Operating System is an example of 1 a) System Software b) Application Software c) Utility Program d) None of these Data Items having fixed value are called..... Q6. 1 a) Identifiers b) Functions c) Keywords d) Literals Q7. To print the value of a variable, Python uses 1 a) Print statement b) Print() statement c) print statement d) print() statement Q8. 1 a) integer b) string d) none of these c) floating point Q9. In Python, a variable may be assigned a value of one type, and then 1 later assigned a value of a different type. This concept is known as

MM: 70 TIME: 3 HRS

| | a) Mutability | b) Static typing | | |
|------|---|---------------------------------------|---|--|
| | c) Dynamic Typing | d) Immutability | | |
| Q10. | 0. Which of the following is not an immutable type in Python. | | | |
| | a) String | b) Tuples | | |
| | c) Set | d) Dictionary | | |
| Q11. | In the following expression x=a+5-b, | a and b are | 1 | |
| | a) Operator | b) Operands | | |
| | c) Expression | d) Equation | | |
| Q12. | What values are generated when the functions range(6,0,-2) is | | 1 | |
| | executed | | | |
| | a) [4,2] | b) [6,4,2,0] | | |
| | c) [4,2,0] | d) [6,4,2] | | |
| Q13. | Consider the following loop given be | low: | 1 | |
| | for i in range(10,5,-3): | | | |
| | print(i) | | | |
| | | h) 2 | | |
| | a) 5 | $D) \ge$ | | |
| 014 | C) I | | 1 | |
| Q14. | An empty / null statement in Python | 15 | I | |
| | a) go | b) pass | | |
| | c) over | d) ; | | |
| Q15. | What will be the output of the following Python code?1 | | 1 | |
| | 1={'a':10,'b':2,'c':3} | | | |
| | str1=' ' | | | |
| | for i in d1: | | | |
| | str1=str1+str(d1[i])+" " | | | |
| | str2=str1[:-1] | | | |
| | print(str2[::-1]) | | | |
| | a) 3,2 | b) 3,2,10 | | |
| 0.40 | c) 3,2,01 | d) Error | | |
| Q16. | Which of the following will always ret | ing will always return a list? | | |
| | a) max() | b) min() | | |
| | c) sort() | d) sorted() | | |
| Q17. | Which of the following can delete an | element from a list if a index of the | 1 | |
| | element is given? | | | |
| | a) pop() | b) remove() | | |
| | c) del | d) all of the above | | |
| Q18. | What would the following code print? | ? | 1 | |
| | | | | |

| | d={'Spring':'autumn','autumn':'fall','fall':'spring'} | | | |
|------|--|-----------------------------|---|--|
| | print(d['autumn'] | | | |
| | a) autumin D) Tali | | | |
| 010 | Civen a list $L = [10, 20, 20, 40, 50, 60, 70]$ what | would L [2: 2] roturn | 1 | |
| Q19. | Given a list L-[10,20,30,40,30,00,70], what | | I | |
| | a) [10,20,30,40] b) [20,3 | 30,40,50] | | |
| | c) [20,30,40] d) [30,4 | 10,50] | | |
| Q20. | Dictionaries are also called | | 1 | |
| | a) Mapping b) Hash | ies | | |
| | c) associative arrays d) all of | these | | |
| | CONCEPTUAL BASED QUESTIC | NS – 14 MARKS | | |
| Q21. | How is clear() function different from del <dic< td=""><td>t> statement</td><td>2</td></dic<> | t> statement | 2 | |
| Q22. | What does each of the following expressions evaluates to ? Suppose that L is the list ['These',['are','a','few','words'],'that','we','will','use'] (a) L[1][3][1:] (b) L[2][1] upper() | | 2 | |
| Q23. | What is the use of range() function ? Explain | with the help of an example | 2 | |
| Q24. | What are the three internal attributes of a value-variable in Python? Explain with example. | | 2 | |
| Q25. | Define Token. How many types of tokens are allowed in Python? | | 2 | |
| Q26. | What do you understand by input unit? What is its significance? | | 2 | |
| Q27. | What is cross platform software? | | 2 | |
| | APPLICATION BASED QUESTIO | NS – 18 MARKS | | |
| Q28. | What is the output of the following code: d1={5:[6,7,8],'a':[1,2,3]} print(d1.keys()) print(d1.values()) | | 2 | |
| Q29. | Predict an output: Odd=[3,4,5] print(($Odd+[12,13,14]$)[3]) print(($Odd+[78,89,90]$)[4] = ($Odd+[2,4,6]$)[4]) | | 2 | |
| Q30. | Predict an output of the following code: for x in [1,2,3,4,5]: | | 2 | |
| Q31. | Predict an output of the following: a=5-4-3 b=3**2**3 print(a) print(b) | | 2 | |
| Q32. | Predict an output of the following: x,y=20,60 y,x,y=x,y-10,x+10 print(x,y) | | 2 | |

Q33. Predict an output of the following: my_list=['c','l','a','s','s','i','c'] my_list[2:3]=[] print(my_list) my_list[2:5]=[] print(my_list)

Q34. Find the error: Rewrite the code in correct form. list1=[4,9,7] list2=list1*[3,5] print(list1*3.0) print(list2)

- Q35. Create a dictionary ODD of odd numbers between 1 and 10, where the 2 key is the decimal number and the value is the corresponding in words.Write the answer and perform the following operations on this dictionary:
 - a) Check if 7 is present or not
 - b) Retrieve the value corresponding to the key 9
- Q36. Predict an output of the following code:

PROGRAMMING PRACTICE – 18 MARKS

- Q37. Ask the user to enter a list containing numbers between 1 and 12 Then 3 replace all the entries in the list that are greater than 10 with 10.
- Q38. Write a program to create a dynamic dictionary to store names of states 3 and their capitals.
- Q39. Write a program in Python which inputs a list of numbers and find out
 3 the maximum and minimum element of it. For an example, if a list is
 [82,23,34,45] then output will be maximum=82 and minimum=23
- Q40. Write a program to calculate the sum of odd numbers divisible by 5 from 3 the range(1....100)
- Q41. Write a program to find the area of circle.
- Q42. Write a program to find the simple interest based principal amount, rate 3 and time (Hints: Simple Interest= (principal amount*rate*time)/100

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