विद्या सर्वार्थि साधिका

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PERIODIC TEST - 3

Class : XI

Subject: Computer Science (083) MM : 40

Date : 04-01-2024 Time: 1 Hr. 30 min.

General Instructions:

1. There are 20 questions in all. All questions are compulsory.
2. This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
3. Section A consists of twelve MCQs of 1 mark each, Section B consists of two questions of 2 marks each, Section C consists of two questions of 3 marks each, Section D consists of two programs of 5 marks each and Section E consists of 2 questions of 4 marks each.
4. There is no overall choice. However, an internal choice has been provided in section D and E. You have to attempt only one of the choices in such questions.

SECTION A

1. Artificial Intelligence is about_____. (1)
   (A) playing a game on Computer (B) making a machine Intelligent
   (C) programming on Machine with your Intelligence (D) putting your intelligence in Machine

2. Which of the following is not an example of Social Media? (1)
   (A) Twitter (B) Google (C) Instagram (D) YouTube

3. Which one of the following is not a Characteristics of Big Data? (1)
   (A) Volume (B) variable (C) Variety (D) Veracity

4. Cloud Computing refers to _____. (1)
   (A) accessing the hardware (B) configuring the hardware
   (C) manipulating the hardware (D) All of the above

5. Our digital footprint can be created by _____ (1)
   (A) visiting any website (B) sending email (C) posting online (D)All of the above

6. Online postings of rumours, giving threats online, posting the victim's personal information, comments aimed to publicly ridicule a victim is termed as ____ (1)
   (A) Cyber bullying (B) Cyber crime (C) Cyber insult (D) All of the above

7. IPR stands for _____ (1)
   (A) Indian Property Right (B) Intellectual Property Right
   (C) Intelligent Property Right (D) Intellectual Property Resource

8. _____ means using other's work and not giving adequate citation for the use. (1)
   (A) Plagiarism (B) Licensing (C) Copyright (D) None of the above

9. What is the syntax of slicing the list? (1)
   (A) List (start index, stop index, step) (B) List (start index: stop index: step)
   (C) List [start index, stop index, step] (D) List [Start index: stop index: step]

10. Which one of the following is an example of dictionary? (1)
    (A) D=[] (B) C=( ) (C) L={ } (D) None of these

For question numbers 11 and 12, two statements are given-one labelled Assertion and the other labelled Reason. Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

(A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion

(B) Both Assertion and Reason are true but Reason is NOT the correct explanation of Assertion.

(C) Assertion is true but Reason is false

(D) Assertion is false and Reason is also false.

11. Assertion (A) : For a given list L=[11,12,13,14,15,16], the index of element 13 will be either 2 or -4. (1)

Reason (R) : Python List supports forward and backward indexing: forward indexing starts with 0 given to leftmost element and backward indexing starts with -1 given to rightmost element.

12. Consider the following dictionary (1)

Book = {1:2,2:3,3:4,4:5}

Rahul executes statement: ***2 in Book***

Assertion(A) : For the above dictionary Book, output of the expression 2 in Book is True.

Reason(R) : For Dictionary, the ***in*** and ***not in*** operator return True or False according to whether the specified operand occurs as Value in dictionary.

SECTION B

13. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)

```
D={'DELHI':'011',' MEERUT';'0121','GHAZIABAD': ‘023’}
10 = step
for e in the range(0 , step):
    If e%2==0:
        print(D[e] + 1)
    else:
        print(D(e) – 1
```

14. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)

```
t=(10,20,30,40,50,)
A = int(input("Enter any number:"))
Ar = 0
for x in range(0,A,2)
     Ar+=t[x]
     if x%2=0:
         Print (t[x]*10)
     Else:
         print (t[x])
print (Ar)
```

SECTION C

15. Find the output of the following python code. (3)

```
def Diff(N1, N2):
        if N1 > N2:
                return N1-N2
        else:
                return N2-N1
NUM=[10,23,14,54,32]
for CNT in range(4,0,-1):
   A=NUM[CNT]
   B=NUM[CNT-1]
   print(Diff(A,B), '#' , end='')
```

16. Find the output of the following python code. (3)

```
tuple1={'GJ01':'Ahmedabad','GJ02':'Mehsana','GJ03':'Rajkot','GJ04':'Bhavnagar'}
list1=list(range(len(tuple1)))
K=list(tuple1.keys())
new_list=[]
for i in list1:
   if i%2==0:
      new_list.append(tuple1[K[i]])
   else:
      new_list.append(K[i])
new_tuple=tuple(new_list)
print(new_tuple)
```

SECTION D

17. Write a python program to reads a line of text and display the frequency of each word in the line. (5)

OR

Write a python program that reads Line from user and create dictionary of words from the line.

18. Write a python program that reads 10 numbers from user and finds if a given number is present in the list or not. (Note : Number to be searched will be entered by user) (5)

SECTION E

19. (i) Define Tuple. (1)
    (ii) Write a statement to create an empty tuple named T1. (1)
    (iii) Write two difference between Tuple and List (2)

OR

(iii) Explain the following functions in reference to Tuple.
Count() Max()

20. (i) Write a statement to delete a key value pair in dictionary. (1)
    (ii) What is the use of Items() method of dictionary? (1)
    (iii) Write a statement to check if a key exists in the ***person*** dictionary. (2)

OR

(iii) Write a statement to check if two dictionaries are equal.