



विद्या सर्वार्थ साधिका

ANANDALAYA
ANNUAL EXAMINATION
Class : XI

Subject: Computer Science (083)
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MM :70
Time: 3 Hrs.

General Instructions:

1. The paper is divided into 5 Sections- A, B, C and D.
2. There are 40 questions in this question paper. All questions are compulsory.
3. Section-A consists of 26 questions (1 to 26). Each question carries 1 Mark.
4. Section-B consists of 4 questions (27 to 30). Each question carries 2 Marks.
5. Section-C consists of 7 questions (31 to 37). Each question carries 3 Marks.
6. Section-D consists of 3 questions (38 to 40). Each question carries 5 Marks.

SECTION-A (26 x 1 = 26 Marks)

1. You don't have to pay for Python and you can view its source code too. It means Python is _____ (1)
(A) Free and open source (B) freeware (C) open source (D) shareware
2. Which of the following is an escape sequence for a tab character? (1)
(A) \a (B) \t (C) \n (D) \b
3. UTF8 is a type of _____ encoding. (1)
(A) ASCII (B) extended ASCII (C) Unicode (D) ISCII
4. If $L = [1, 2]$ then $L * 2$ will yield (1)
(A) $[1, 2] * 2$ (B) $[1, 2, 2]$ (C) $[1, 1, 2, 2]$ (D) $[1, 2, 1, 2]$
5. The hexadecimal representation of 1110 is _____. (1)
(A) 0111 (B) E (C) 15 (D) 14
6. To print a line a text without ending it with a newline, _____ argument is used with print() (1)
(A) sep (B) newline (C) end (D) next
7. What will be the value of the Python expression: $4 * 3 \% 5$? (1)
(A) 1 (B) 2 (C) 3 (D) 4
8. Which of the following is true for variable names in Python? (1)
(A) Underscore and ampersand are the only two special characters allowed
(B) Variable names can be of any length
(C) All private members must have leading and trailing underscores
(D) None of the mentioned
9. The lines beginning with a certain character, and which are ignored by a compiler and not executed, are called _____. (1)
(A) operators (B) operands (C) functions (D) comments
10. The default separator character of print() is _____. (1)
(A) tab (B) space (C) newline (D) dot
11. Which of the following will create a single element tuple? (1)
(A) (1,) (B) (1) (C) ([1]) (D) tuple([1])
12. Given a list $L = [10, 20, 30, 40, 50, 60, 70]$, what would $L[-3 : 99]$ return? (1)
(A) $[20, 30, 40]$ (B) $[30, 40, 50]$ (C) $[40, 50, 60]$ (D) $[50, 60, 70]$
13. To find the last element of list namely 'smiles' in Python, _____ will be used. (1)
(A) smiles[0] (B) smiles[-1] (C) smiles[lpos] (D) smiles[:-1]
14. Which of the following is not a loop statement in Python? (1)
(A) do-while (B) while (C) for (D) All of these

15. A company interested in cloud computing is looking for a provider who offers to outsource the hardware and software on demand basis and pay as per the usage, thereby saving the cost of software, hardware and other things as well as the cost of setting up, maintenance and security. What type of cloud computing model fits these requirements? (1)
 (A) IaaS (B) PaaS (C) DaaS (D) SaaS
16. The list L1 contains [3, 4, 5, 6, 6, 8, 0]. (1)
 What will be the output of the following expression?
`print(L1 [-1])`
 (A) 0 (B) 3 (C) 5 (D) 8
17. Consider the following lists: (1)
`L1 = ["this", "is", "a", "list"]`
`L2 = ["this", "is", "another list"]`
 Which of the following statements will result in an error?
 (A) `L1=L2` (B) `L1.copy()` (C) `l1.append(1,2,3)` (D) `L2.pop()`
18. If my_dict is a dictionary as defined below, then which of the following statements will raise an exception? (1)
`my_dict = {'apple': 10, 'banana': 20, 'orange': 30}`
 (A) `my_dict.get('orange')` (B) `print(my_dict['apple', 'banana'])`
 (C) `my_dict['apple']=20` (D) `print(str(my_dict))`
19. Which one of the following is Cloud Platform by Microsoft? (1)
 (A) Azure (B) AWS (C) Cloudera (D) None of the Above
20. Find the output of the following program segments: (1)
`a = 45`
`while a > 30:`
`print(a, end='#')`
`a -= 5`
 (A) #45#40#35 (B) 45#40#35# (C) 45 40 35 # (D) None of the above
21. What will be the output of the following code snippet? (1)
`budget_theme= "Sabka Vikash"`
`print(budget_theme [-2::-2])`
 (A) sh (B) skVabS (C) skVab (D) kVabS
22. As an ethical digital citizen, we need to be careful while _____. (1)
 (A) streaming audio (B) streaming video (C) downloading (D) All of the above
23. The act of presenting a person with a false website or email that appears original or authentic is known as _____. (1)
 (A) Hacking (B) Phishing (C) Identity theft (D) Cyber Bullying
24. The actual implementation of concept or invention will be protected by _____. (1)
 (A) Trademark (B) Copyright (C) Patent (D) None of the above
- Q25 and Q26 are Assertion(A) and Reason(R) based questions. Mark the correct choice as:
 (A) Both A and R are true and R is the correct explanation for A
 (B) Both A and R are true and R is not the correct explanation for A
 (C) A is True but R is False
 (D) A is False but R is True
25. Assertion (A): List traversal in Python is done through slicing and using for loop also. (1)
 Reasoning (R): Traversal can be done only through forward indexing.
26. Assertion (A) : Tuple in Python is an ordered and immutable data type. (1)
 Reasoning (R): Tuples can contain heterogenous data and permit duplicate values.

SECTION - B (4 x 2 = 8 Marks)

27. Rewrite the following code after removing all syntax error(s). Underline each correction. (2)
- ```
a = [5:10, 15: 20, 25:5]
for N in range(Len(a)):
 if a[N]>5:
 a[N]=a[N]+1
 else
 a(N+1)+=1
print (a)
```
28. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)
- ```
V = int(input("Enter a Number")
Cnt = 0
For P =0 to 10:
    Cn1+=P
    if P%5=0:
        print(P*10)
    else:
        print(V* )
print(Cn)
```
29. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)
- ```
def even_odd{x}:
 even=[];
 odd= [];
 If x % 2 == 0:
 even.append(x)
 return "X is even"
 else:
 odd.append(x)
 return "X is odd"
```
30. Consider the following code: (2)
- ```
import random
p = "MY PROGRAM"
i = 0
while p[i] != "R":
    l = random.randint(0,3) + 5
    print (p[l],end = "_")
    i += 1
```
- What possible output(s) are not expected to be displayed on the screen at the time of execution of the program from the following code?
- (a) M_M_Y_P (b) R_G_A_G (C) G_G_R_O (D) O_G_G_A

SECTION - C (7 x 3 = 21 Marks)

31. What will be the output produced by the following code fragment? (3)
- ```
c = 10
def add():
 global c
 c = c + 2
 print(c,end='#')
add()
c=15
print(c,end='%')
```

32. What will be the output produced by the following code fragment? (3)
- ```
TXT = ["20","50","30","40"]
CNT = 3
TOTAL = 0
for C in [7,5,4,6]:
    T = TXT[CNT]
    TOTAL = float(T) + C
    print(TOTAL)
CNT-=1
```
33. What will be the output produced by the following code fragment? (3)
- ```
List1 = [13, 18, 11, 16, 13, 18, 13]
print(List1.index(18))
print(List1.count(18))
List1.append(List1.count(13))
print(List1)
```
34. Write the output of the following code: (3)
- ```
Data = ["P",20,"R",10,"S",30]
Times = 0
Alpha = ""
Add = 0
for C in range(1,6,2):
    Times= Times + C
    Alpha= Alpha + Data[C-1]+"$"
    Add = Add + Data[C]
    print (Times,Add,Alpha)
```
35. What is the difference between sort() and sorted()? (3)
36. Why do we need a secure connection while doing netbanking? (3)
37. Convert the following Hexa-decimal number to Decimal Number: (3)
- (A) 5A₁₆ (B) A6₁₆ (C) B1₁₆

SECTION - D (3 x 5 = 15 Marks)

38. Write python program to read the value of N and display sum of the following series. (5)
- Sum=1 + $\frac{1}{2}$ + $\frac{1}{4}$ 1 / N²
39. Write a python program to read a Lines from user till '\$' is entered as a line. for each line perform the following: (5)
- ❖ Display total number of characters in the line.
 - ❖ Display words that start and end with same letter.
40. Write a python program to read N number of integer Numbers for each line perform the following: (5)
- ❖ add each number to the list named lstNum,
 - ❖ Make sum of all odd numbers.
 - ❖ Make sum of all even numbers.
 - ❖ Display difference in sum of odd and even numbers.