



विद्या सर्वार्थ साधिका

ANANDALAYA  
ANNUAL EXAMINATION  
Class : XI

Subject: Computer Science (083)

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MM :70

Time: 3 Hrs.

General Instructions:

1. There are 40 questions in this question paper. All questions are compulsory.
2. Q.No. 1 to 5 are short answer questions and carry 1 mark each.
3. Q.No. 6 to 26 are multiple choice question and carry 1 mark each.
4. Q.No 27 to 30 are find errors and short answer question and carry 2 mark each.
5. Q.No 31 to 37 are find output and short answer question and carry 3 mark each.
6. Q.No 38 to 40 are Writing programs and carry 5 mark each.
7. There is no overall choice.

1. State True of False (1)  
“Keywords can be used as identifiers in python”.
2. Differentiate between *is* and *=* in python. (1)
3. What is the base of hexadecimal number system? (1)
4. List is enclosed in \_\_\_\_\_ brackets. (1)
5. Write full form of ISCII. (1)
6. Is Python case sensitive when dealing with identifiers? (1)  
(A) No (B) Yes (C) Machine dependent (D) None of these
7. What will be the value of the Python expression  $4 + 3 \% 5$ ? (1)  
(A) 7 (B) 2 (C) 4 (D) 1
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. Which of the following character is used to give single-line comments in Python? (1)  
(A) // (B) # (C) ! (D) /\*
10. What is the order of precedence in python? (1)  
(A) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction  
(B) Exponential, Parentheses, Division, Multiplication, Addition, Subtraction  
(C) Parentheses, Exponential, Multiplication, Division, Subtraction, Addition  
(D) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction
11. Which of the following is not associated with tuples in Python? (1)  
(a) index() (B) append() (C) len() (D) count()

12. Which of the following Python statements will result in the output: 6? (1)  
`A = [ [1, 2, 3],  
[4, 5, 6],  
[7, 8, 9] ]`  
(A) `print(A[2][1])` (B) `print(A[1][2])` (C) `print(A[3][2])` (D) `print(A[2][3])`
13. What will be the output after the following statements? (1)  
`x=[5,4,3,2]  
x.append(1)  
print(x)`  
(A) `[5,4,3,2]` (B) `5,4,3,2` (C) `5432` (D) `[5,4,3,2,1]`
14. \_\_\_\_\_ technology makes users feel as if they truly are in a virtual environment. (1)  
(A) Natural Language Processing (B) Augmented Reality  
(C) Machine Learning (D) Virtual Reality
15. Which of the following statements is valid for "if statement"? (1)  
(A) `if a >= b :` (B) `if (a>= b)` (C) `if (a => b)` (D) `if a>= b`
16. What will be the output of the following Python code? (1)  
`for i in ['A', 'B', 'C', 'D'][::-1]:  
print (i,end="")`  
(A) `D C B A` (B) `error` (C) `A 1 2 3 4` (D) `None of the above`
17. To add a new element to a list we use which Python command? (1)  
(A) `list1.addEnd(5)` (B) `list1.addLast(5)` (C) `list1.append(5)` (D) `list1.add(5)`
18. What will be the output of the following Python code snippet? (1)  
`a = {}  
a[1] = 1  
a['1'] = 2  
a[1]=a[1]+1  
count = 0  
for i in a:  
count += a[i]  
print(count)`  
(A) `1` (B) `2` (C) `4` (D) `Error`
19. Which one of the following is Cloud Platform by Amazon? (1)  
(A) Azure (B) AWS (C) Cloudera (D)None of the Above
20. Find the output of the following program segments: (1)  
`a = 110  
while a > 100:  
print(a, end='#')  
a -= 2`  
(A) `110#108#106#104#102#100#` (B) `110#108#106#104#102#`  
(C) `110#108#104#106#102#` (D) `None of the above`
21. What data type is the object below? (1)  
`L = [1, 23, 'hello', 1]`  
(A) List (B) Dictionary (C) Array (D) Tuple

22. Whenever we surf the Internet using smartphones, tablets, computers, etc., we leave a trail of data reflecting the activities performed by us online, which is our \_\_\_\_\_. (1)  
 (A) Digital footprint (B) Smart footprint (C) Social footprint (D) None of the above
23. What do you mean by cyber bullying? (1)  
 (A) Insulting to others online (B) Giving threats online  
 (C) Sharing others personal information (D) All of the above
24. The name and logo of the company will be protected by \_\_\_\_\_. (1)  
 (A) Trademark (B) Copyright (C) Patent (D) None of the above
25. Online posting 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
26. The law in India gives the user instructions on how to process, store, and transmit sensitive information. (1)  
 (A) Information Technology Act, 2000  
 (B) Information Technology Act, 2001  
 (C) Information Technology Act, 2002  
 (D) Information Technology Act, 2003
27. Rewrite the following code after removing all syntax error(s). Underline each correction. (2)  

```
a = [5, 10, 15, 20, 25]
a is 1
for N in the range(length(a))
    if K=>750
        i=a[N]+1
    else
        j=a(N+1)+1
        m=m+a[K+1]
print (m)
```
28. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)  

```
Val = int("Enter a Number")
Cn1 = 0
for P =0 to 10:
    Cn1+=P
    if P%5=0:
        print(P*10)
    else:
        print(P 3)
print(Cn)
```
29. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)  

```
x = input("Enter a number:")
if (x=25):
    for a in range(1,x)
        Print(x)
Else:
    x=-* -1
print(x & 3 )
```

30. Consider the following code : (2)

```
import random
STRING="CBSEONLINE"
NUMBER=random.randint(0,3)
N=9
while STRING[N]!="L":
    print(STRING[N] + STRING[NUMBER] + "#", end=" ")
    NUMBER= NUMBER +1
    N=N-1
```

What possible output(s) are expected to be displayed on the screen at the time of execution of the program from the following code? Also, specify the Minimum and Maximum values that can be assigned to the variable NUMBER.

- (a) ES#NE#IO#      (b) LE#N#ON#      (C) NS#IE#LO#      (D) EC#NB#IS#

31. Consider the following code : (3)

```
import random
print(int(20+random.random()*5), end="")
print(int(20+random.random()*5), end="")
print(int(20+random.random()*5), end="")
print(int(20+random.random()*5) )
```

Find the suggested output options (i) to (iv). Also, write the least value and highest value that can be generated:

- (1) 20 22 24 25 (ii) 22 23 24 25 (iii) 23 24 23 24 (iv) 21 21 21 21

32. What will be the output produced by the following code fragment? (3)

```
Moves=[5,10,15]
Bishop=Moves
Moves[2]+=22
L=len(Moves)
for i in range(L):
    print("Now@", Bishop[L-i-1],"#", Moves[i])
```

33. What will be the output produced by the following code fragment? (3)

```
def Change(P,Q=30):
    P=P+Q
    Q=P-Q
    print(P,"#",Q)
    return(P)
```

```
R=150
S=100
R=Change(R,S)
print(R,"#",S)
S=Change(S)
```

34. Write the output of the following code: (3)

```
Text1="Learning @2024"
Text2=""
I=0
while I<len(Text1):
    if Text1[I]>="0" and Text1[I]<="9":
        Val=int(Text1[I])
        Val=Val + 1
        Text2=Text2 + str(Val)
```

```

elif Text1[I]>="A" and Text1[I] <="Z":
    Text2=Text2+(Text1[I+1])
elif Text1[I]>="a" and Text1[I] <="z":
    Text2=Text2+(Text1[I-1])
else:
    Text2=Text2+"*"
I=I+1
print(Text2)

```

35. Differentiate between append() and extend() functions of list. (3)

36. Match the words given in column A with the appropriate statement from column B : (3)

Column A	Column B
Hacking	Fakers, by offering special rewards or money prize asked for personal information, such as bank account information
Credit card fraud	The trail that is created when a person uses the Internet.
Digital Foot Print	Breaking into computers to read private emails and other files

37. Convert the following decimal number to Octal Number: (3)  
 (A)  $108_{10}$  (B)  $36_{10}$  (C)  $84_{10}$

38. Write python program to read the value of N and display sum of the following series. (5)  
 $Sum=1+4 +9 + 16 \dots .. N^2$

39. Write a python program to read a list of 10 Words and shift the words that starts with letter 'A' to the beginning of the list and rest of the words to the end of the list. (5)

40. Write a python program to read a list of N integer Numbers and find the frequency of each number that entered by the user. (5)