**Half yearly Examination Class-XI**

 **Computer Science (083) 2023-24**

Max Marks: 70 SET A Time: 3 Hrs

**G*eneral Instructions:***

 ***Programming Language used is PYTHON. All questions are compulsory.***

**SECTION A**

Q1 State True or False for the following statement: [1]

“Python is a low-level language”

Q2 IDLE stands for [1]

a. Information Development Logic Environment

b. Interaction Development Logic Environment

c. Integrated Development and Learning Environment

d. Interaction Developer and Logic Environment

Q3 How will you create a empty string? [1]

Q4 Which of the following is a valid data type in Python? [1]

a. Real b. Floating Point c. Decimal d. Letter

Q5 What will the result of the expression 10 or 0? [1]

Q6 The string indexes begin with \_\_\_\_\_\_\_\_\_\_\_\_\_ onwards. [1]

Q7 What will be the correct output :- [1]

S= “python is very funny language”

print(S.split(“n”))

(i) ['pytho', ' is very fu', ' ', ' ', 'y la', 'guage'] (ii) ['pytho', ' is very fu', ' ','y la', 'guage']

(iii) ['pytho', ' is very fu', 'y la', 'guage'] (iv) ['pytho', ' is very fun', 'y la', 'guage']

Q8 How many times is the word “Python” printed in the following statement? [1]

s=’I love python’

for ch in s[3:8]:

 print (‘python’)

Q9(a) What will the following expression be evaluated to in Python? [1]

 2\*\*2\*\*2

 a. 16 b. 128 c. 64 d. 8

(b)What is the difference between = and = =? [1]

(c) What will be the output produced? [1]

w, x, y, z = True , 4, -6, 2

result = -(x + z) < y or x \*\* z < 10

print(result)

Q10 Select the correct output of the code: [1]

S= “WELCOME TO CLASS XII

L=S.split()

S\_new=”#”.join([L[0],L[1].capitalize(),L[2].lower(),L[3].capitlize()])

print(S\_new)

(i) Welcome#To#class#Xii (ii) Welcome#TO#CLASS#XII

(iii) WELCOME#To#Class#Xii (iv)WELCOME#To#class#Xii

Q11 Comments in python starts with \_\_\_\_\_? [1]

Q12 The following code produces an error: [1]

 a=int(input(‘Enter a number’))

 c=a+b

 print(b)

What is the name of the error?

 a. Name Error b. Undefined Error c. Type Error d. Syntax Error

Q13 Operators with the same precedence are evaluated in which manner? [1]

 a) Left to Right b) Right to Left c) Can’t say d) None of the mentioned

Q14 Give output: [1]

 print('My' \*3 + 'life'+'7')

a) MyMyMylifelifelifelifelife b) MyMyMylifelifelifelifelifelifelife

c) MyMyMyMyMyMyMylifelifelife d) MyMyMylife7

Q15 What type of error return by index() function, if element is not present in list [1]

Q16 Which functions would you chose to use to remove leading and trailing white spaces from [1]

 a given string?

Q17 Write arithmetic expression using operators in Python [1]

 e2-x

Q18The following questions 18 is Assertion-Reasoning based, answer the question by choosing one of the following responses: [1]

a. Both A and R are true and R is the correct explanation of A.

b. Both A and R are true but R is not the correct explanation of A.

c. A is true but R is false.

d. A is false but R is true.

18. A: Python is not a low-level language.

R: It uses English-like words and simple syntax which is very easy to understand to humans.

**SECTION B**

Q19 Suggest appropriate functions for the following tasks – [1+1]

(a) To check whether the string contains digits.

(b) To find the occurrence a string within another string.

Q20 What would following expression return? [1+1]

(a) ”Computer SCIENCE”.upper().lower()

(b) ”CS with Python”.find(“Wit”,1,6)

Q21 Evaluate the following operations as a Python interpreter would: [2]

 a. 2//3\*6+9 b. (2+2)\*\*(2-1)/2

Q22 Find error in the following code (if any) and correct code by rewriting code and underline

the correction; - [2]

30=To

for K in range(0,TO):

 IF k%4==0:

 print(K\*4)

 Else:

 print(K+3)

Q23 (a) What do you mean by keywords and identifiers? Explain them by writing a python program. [2]

**(b)** Write an appropriate for loop for the situations described below:

#### A loop is to be repeated 20 times [1]

#### A loop is to be processed till 200 starting from 100. Print all even numbers between the loop. [1]

Q24 Identify the datatype of the following: [2]

 A) False B) “true” C) 34 D) 45.0

Q25 Find output [2]

(a) for i in range(1,16):

 if i%3==0:

 print(i)

(b) Give output: [2]

s='Welcome to Python'

print(s.find('come'), end=' ')

print(s.rfind('o'))

Q26 Consider the statements given below and then choose the correct output from the [2]

given options:

s1="#G20 Presidency"

s2="in the Vidyalaya"

s1\_new=s1[-3:2:-2]

s2\_new=s2[-3:2:-3]

print(s1\_new+s2\_new)

Q27 Write a Python program to accept a string and display whether it is a palindrome [2]

Q28 Write the outout of the following code

s='mahender, singh, dhoni' [2]

s1=s.split()

for i in s1:

 if(i>'n'):

 print(i.upper())

 else:

 print(i)

 OR

Write a Python Program to check First Occurrence of a Character in a String

Q29 Write a Python program to print the following pattern: [2]

\*

\* \*

\* \* \*

\* \* \* \*

Q30 (a) Print the table of user defined number [2]

(b) What is the output produced by the following code?     [2]

x=1

if x>3:

 if x>4:

 print('A',end='#')

 else:

 print('B',end='$' )

elif x<2:

 if (x!=0):

 print('C', end='@' )

print('D')

**SECTION C**

Q31 Write a Python program that counts the number of alphabets and digits, [3]

uppercase letters, lowercase letter, spaces and other characters in the string entered.

Q32 WAP to accept 10 numbers from the user, and print even and odd nos [3]

Q33 WAP to count and display the word “this” from the entered string otherwise display message” word is not present” [3]

Q34 Write a code that will accept string from the user and count the total number of digits. If there are no digits ,print the original string and message “has no digits” [3]

Q35(a) Difference between the following with example: [2+2]

 (i) find() and index() (ii) isupper() and Lower()

(b) Find Output: [4]

a,b,c=1,1,2

d=a+b

e=1.0

f=1.0

g=2.0

h=e+f

print(c==d)

print(c is d)

print(g==h)

print(g is h)