KENDRIYA VIDYALAYA SANGATHAN, RANCHI REGION
SAMPLE QUESTION PAPER
TERM-2(SESSION ENDING EXAM 2021-22)
COMPUTER SCIENCE(CODE:083)
CLASS XI

Maximum Marks: 35   Time: 2 Hours.

General Instructions:

- The question paper is divided into 3 sections – A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers 7, 8 and 12.

SECTION – A
Each question carries 2 marks

1. Given the lists L=[2 ,7,8, 6,9,17,91,56,33] Write output of

    (i)   print(L[5 : 7])   1
    (ii) print(L[-7:-2])   1

2. Write the output of the following: 2
    L=[ ]
    L1 = [ ]
    for i in range (16,10):
    L.append(i)
        for i in range (20,4,-2):
    L1.append(i)
        print("L = ", L)
        print("L1 = ",L1)

3. What possible output(s) are expected to be displayed on the screen at the time of execution of the following program code: 2

import random

COLORS=['VOILET', 'INDIGO', 'BLUE', 'GREEN', 'YELLOW', 'ORANGE', 'RED']

end = random.randrange(2)+5

begin=random.randint(1,end)+1

for i in range (begin, end):

      print (COLORS[i], end="#")

(a) BLUE # GREEN #

(b) GREEN # YELLOW # ORANGE #

(c) INDIGO # BLUE # GREEN #

(d) YELLOW # ORANGE # RED #

4. (i) Name any 2 social networking apps 2

(ii) A computer program encrypts (lock by password) all your important documents on the computer and asks you to deposit money in a certain bank account to decrypt (unlock) those files. What that malicious program is known as?

5. Write the differences between Copyrights and Patents? 2

6. What do you understand by Phishing? Write the example of Phishing. 2

7. Match the following: 2

Column A	Column B
Plagiarism	Fakers, by offering special rewards or money prize asked for personal information, such as bank account information
Hacking	Copy and paste information from the Internet into your report and then organise it
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

OR

Expand the terms: IPR, GPL, OSS, GNU

SECTION – B

Each question carries 4 marks

8. Write a program to accept elements of a list from the user. Multiply elements   3
   of the list with 7, if an element is a multiple of 7 otherwise multiply each
   element with 4. After processing, display the elements.
   Example:

List=	[4 ,7,6,8,14,22,21,17]
Output:	[16,49,24,32,98,88,147,68]

OR

Consider the following list, s=['W','e','a','r', ' ' ,'a', ' ' , 'M','a','s','k']
Write a program to display each character along with its positive index and
negative index.

9.   i. What will be the output of following code: 1

      >>> tuple1 = ("Rama","Heena","Raj", "Mohsin","Aditya")

      >>> sorted(tuple1)

  ii. Amit is getting an error with the following code. Can you spot the error.   2

      T=(10,20,30)

      T.append(40)

  Also help Amit to write correct code to, how he can add/concatenate an
element at the last of the tuple.

10. Write Short Note about following: 3
    1.   E-waste Management
    2.   IPR
    3.   Digital Footprint

SECTION – C

Each question carries 4 marks

11. Consider the following list L=[13,18,20,10,18,23]   4
    Write python statements to perform the following task
    (a) count number of times the value 18 is repeating
    (b) arrange values in descending order
    (c) remove the last element
    (d) Insert 15 at index position 3

12. Write a program to enter names of employees and their salaries as input   4
and store them in a dictionary. Here employees name taken as key and
salaries consider as value in dictionary.

OR

Write a program to enter the element in list and divide the elements of a list
into two halves and interchange the elements of the list such that the first half
and second half are exchanged.
Example:
If list is lst = [10,20,30,40,50,60,70,80]
Then new list is [50,60,70,80, 10,20,30,40]

13. Explain following term in respect of Cyber Safety and Ethics   4
    (a) Cyber Crime
    (b) Indian IT Act
    (c) Trademark
    (a) Netizen