INDIAN SCHOOL MUSCAT
SECOND TERM EXAMINATION
COMPUTER SCIENCE (083)

CLASS: XI

02.03.2022

Time Allotted: 2 hrs.

Max. Marks: 35

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. Define e-waste. List any two e-waste hazards. (2)

2. (i) Write a statement in Python to declare a dictionary whose keys are **10, 20, 30** and values are **"Monday"**, **"Tuesday"** and **"Wednesday"** respectively. (1)

   (ii) Consider the following code and predict output: (1)

   a={1:"P", 2:"X", 3:"T"}
   b={2:"Y", 4:"H", 5:"O", 6:"N"}
   a.update(b)
   print(a)

3. Answer the following: (2)
   (a) What do you mean by eavesdropping?
   (b) Write any two tips to safely browse internet.

4. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Lower and Upper. (2)

   import random
   AR=[20,30,40,50,60,70]
   Lower =random.randint(1,3)
   Upper =random.randint(2,4)
   for K in range(Lower, Upper +1):
   print (AR[K],end="#")

(i)   10#40#70#
(ii) 30#40#50#
(iii) 50#60#70#
(iv) 40#50#70#

5.   What do you understand by Net Etiquettes? Write any two rules to be followed in netiquettes.   (2)

6. (i)   A computer program encrypts (lock by password) all your important documents on the computer   (1)
         and asks you to deposit money in a certain bank account to decrypt (unlock) those files. What
         that malicious program is known as?

   (ii) Sanush copied and pasted information from the Internet into his report and then organize it and   (1)
         submitted to the teacher as his own work. Name this act.

7.   Predict the output of the following python code: (2)
     Also Mention the import statement required, so that the below statements execute successfully.

```
x = -92.56
a = math.fabs(x)
b = math.ceil(x)
c = math.floor(x)
print(a)
print(b)
print(c + 5)
```

OR

What will be the output of the following Python code?

```
import statistics
x = [20, 10, 30, 40, 50, 70, 60, 90, 80]
y = statistics.median(x)
print(y)
z = statistics.mode(x)
print(z)
```

SECTION – B
Each question carries 3 marks

8.   Answer the following: (3)
         (a) Mention any 2 disability issues.
         (b) Define cyber trolling and cyber bullying.
         (c) What is meant by software licensing? Mention any one example of software license.

OR

Write the differences between the following:
         (a) Copyright and Patent
         (b) Phishing and Hacking
         (c) Active and Passive digital footprints

9. (i) What is the length of the tuple shown below: (1)
   T1 = (((('x', 10), 'a', 'b', 'c'), 20), 'y', 'x', 30)
   print(len(T1))

   (ii) Answer the following: (2)
   (a) Predict the output:
   ```
   tup1 = (3, 4, 5, 6)
   tup2 = ('3', '4', '5', '6')
   print(tup1[ :2] + tup2[2: ])
   ```

   (b) What will be the output of the following Python code?
   ```
   TP = ( [2, 3], "abc", 0, 9)
   TP[0][1] = 1
   print(TP)
   ```

10. Consider the following dictionary **Capital**: (3)
    Capital = {"Goa":"Panaji", "Bihar":"Patna", "Maharashtra":"Mumbai", "Rajasthan":"Jaipur"}

    Find the output of the following statements:
    (i) print(Capital.values( ))
    (ii) print("Maharashtra" in Capital)
    (iii) del Capital["Rajasthan"]
    print(Capital)

Section C
Each question carries 4 marks

11. Ms. Niya, a computer science teacher created the following list: (4)
    List = [12, 15, 18, 19, 45, 76, 11, 28, 16]
    (i) She wants to know the number of elements in the list. Which function she should use to get an answer.

    (ii) Ms. Niya wants to add two new elements **25, 11** in the last.
    Which of the following is the correct option?
    a. **List.append(25,11)**
    b. **List.insert(25,11)**
    c. **List.extend(25,11)**
    d. **List.extend([25,11])**

    (iii) She wants to remove value **15** from the list. Please help her to write correct code.

    (iv) Help her to write code to display the values of the list in descending order.

12. (i) Write a python program to input list of integers and remove all the odd numbers from the list (2)
    and print.

    OR

    Write a python program to enter names of employees and their salaries as input for **n** employees
    and store them in a dictionary. Accept number of employees (**n**) from the user. Print the
    dictionary.

(ii) Write a python program to input a tuple from the user and find the average of elements in the tuple. (2)

13. Explain the following: (4)
    (a) OSS
    (b) IPR
    (c) Computer virus
    (d) Copyright Infringement

End of the Question Paper