



FACULTY HIGHER SECONDARY SCHOOL
SAMPLE QUESTION PAPER
Sub – COMPUTER SCIENCE
Class - XII (SCIENCE)

Full Marks -70

Duration --3 Hrs.

- Instructions:** (i) All questions are compulsory.
(ii) This question paper contains [3] number of questions and [02] printed pages
(iii) Questions 1 carries 2 marks each.
(iv) Questions 2 , carries 3 marks each.

- Q1 a) What is a complexity of an algorithm ?
b)How are tuple different from list ?
c)What is the use of import keyword ?
d) Differentiate between Global variable and local variable. Give suitable examples of each
e)Rewrite the following program after removing the syntactical error(s),if any. Underline each correction.

```
2 = nm
WHILE nm<=5
if num>=50 :
printnm
nm=nm+5
else
print nm*2
nm=nm+5
```

- f)Find the output of the following program :

```
a=8
while(a>0):
    print("Good")
    a=a-3
    if a==5:
        break
    else:
        print("Bad")
```

- g) From the program code given below, identify the parts mention below:

```
deffun1(x):
    x=4
    return x + 2
```

```
y=20
z=deffun1(y)
```

Identify these parts: function header , arguments, main program

- h)Write the syntax for range function ?
i)Define stack .
j)Expand the following : (i) LIFO (II) FIFO?.
k)Write a statement in Python to open a binary file btxt.txt in write and read mode.
l)What is connection ?What is its role ?
m)What is cursor ?

- n) Differentiate between server based network and peer to peer network
 o) Define i) Switch ii) Bridge
 p) What is IoT system ?
 q) What is MAC address ?

- Q2 a) What is strings slice? Explain with example ?
 b) Read the code given below answer the question

```
fo=open("msg.dat","a")
fo.write("Bye")
fo.close()
```

 If the file contain "Good" before execution ,what will be the content of the file after execution of the file ?
 c) What do you mean by absolute paths and relative paths ?
 d). Differentiate between iteration and recursion ? Explain with suitable example.
 e) What is matplotlib ? Can a chart saved in a file ? Write the syntax.
 f) What are the following functions used for (i) plot() (ii) Bar() (iii) Pie()
 g) What is connection ? What is its role ?
 h) Differentiate between fetchone() and fetchmany() ?

- Q3. a) What is a inner join in mysql ? 1
 b) Write two examples of DBMS software 2
 c) Table EMP has 3 rows and 3 columns. Table DEPT has 2 rows and 4 columns.
 What will be the DEGREE of the Cartesian product of them ? 1
 d) Which clause suppress duplicate rows ? 1
 e) What are table constraints ? 2
 f) Consider the following table "GARMENT". Write the SQL Commands for the followings : 5

Table : GARMENT

GCODE	GNAME	SIZE	COLOUR	PRICE
111	Tshirt	XL	RED	1400.00
112	Jeans	L	BLUE	1600.00
113	Skirt	M	BLACK	1100.00
114	Ladies Jacket	XL	BLUE	4000.00
115	Trousers	L	BROWN	1500.00
116	Ladies Top	L	PINK	1200.00

- i) To display names of those garments that are available in 'L' size.
 ii) To display code and name of those garments that have their name starting with 'T'
 iii) To display garment names, code and prices of those garments that have price more than 1400
 iv) To change the colour of garment with code as 112 to "RED"
 v) What will be the output of the following command

- 1) Select * from GARMENT where gname like '_a%'
- 2) Select * from GARMENT where price >1600 order by gname