



SAINIK SCHOOL AMARAVATHINAGAR
SERIES TEST - V

DATE: **COMPUTER SCIENCE (083)**
CLASS: XII

MAX MARKS: 70
MAX TIME : 3h

General Instructions:

1. *Please check that this question paper contains 4 printed pages.*
2. *Please check that this question paper contains 6 questions.*
3. *Please write down the serial number of the question before attempting it.*
4. *All questions are compulsory.*
5. *Programming language: Python.*

1. Answer the Followings each carries one mark (1 x 5 = 05)

- a) What is Django?
- b) Which out of the following does not come under Cyber Crime?
 - (i) Copying data from the social networking account of a person without his/her information & consent.
 - (ii) Deleting some files, images, videos, etc. from a friend's computer with his consent.
 - (iii) Viewing & transferring funds digitally from a person's bank account without his/her knowledge.
 - (iv) Intentionally making a false account on the name of a celebrity on a social networking site.
- c) Out of the following, which all comes under cyber crime?
 - (i) Stealing away a brand new hard disk from a showroom.
 - (ii) Getting in someone's social networking account without his consent and posting on his behalf.
 - (iii) Secretly copying data from server of a organization and selling it to the other organization.
 - (iv) Looking at online activities of a friends blog.
- d) Which out of the following comes under Cyber Crime?
 - (i) Operating someone's Internet banking account, without his knowledge.
 - (ii) Stealing a keyboard from someone's computer.
 - (iii) Working on someone's computer with his/her permission.

e) Expand the followings:

i) OSS ii) SDLC iii) GNU iv) FLOSS

2 Answer the followings each carries 2 marks (2 x 5 = 10)

a) What is cursor? Explain

b) What are the two types of HTTP requests?

c) Define MTV and Virtual Environment?

d) When you execute the following code in Django Project which are the files created automatically by Django

```
python manage.py startapp student
```

e) Explain the Django architecture

3 Answer the followings each carries 2 marks (2 x 5 = 10)

a) What are the benefits of python for database programming?

b) Name the modules which are used by python to communicate with MySQL

c) Define intellectual property rights?

d) What is plagiarism?

e) What is difference between hub switch and router?

4 Answer the followings each carries 3 marks (3 x 5 = 15)

a) What is GPL software license? How it is different from LGPL software license?

b) What are parameterised queries?

d) Explain the various methods to extract a data from **RESULTSET**

d) Give examples of software, hardware that may be used for special needs students.

e) What are the benefits of e-Waste Recycling?

5 Answer the followings each carries 3 marks (3 x 5= 15)

a) Explain e-Waste disposal process

b) What is GUI Application?

c) Write down the steps to create GUI application with **tkinter** library

d) Explain Geometry Management in tkinter

e) Define phishing and identity theft

6. Design GUI Application to perform basic arithmetic operation using Tkinter library **3 Marks**
7. Write down the steps to connect to a database in python. Give suitable example. **2 Marks**
8. Write down the steps to Create first django project . **5 Marks**
9. Explain with an example CRUD operations of database using python **5 Marks**