Q.What are data types in python?

Numeric

Sequence Type

Boolean

Set

Dictionary

Q2.Mutable and immutable data types.

Immutable Data types in Python

1. Numeric

2. String

3. Tuple

Mutable Data types in Python

1. List

2. Dictionary

3. Set

Q3.What are generator examples for generators (print starting date - today's to 5 days) using generator concepts.

A generator-function is defined like a normal function, but whenever it needs to generate a value, it does so with

the yield keyword rather than return. If the body of a def contains yield, the function automatically becomes a generator

function

Q4.Fibonacci series using generator

It is a sequence of numbers in which every next term is the sum of the previous two terms

Q5.What are decorators example for decorators

Decorators are a very powerful and useful tool in Python since it allows programmers to modify the behaviour of function

or class

Q6.what is mapping

The map() function executes a specified function for each item in an iterable. The item is sent to the function as a

parameter.

Q7.lambda function

A lambda function can take any number of arguments, but can only have one expression

x = lambda a : a + 10

print(x(5))

Q8.bubble sort

Bubble Sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements

if they are in wrong order.

Q9 What are django sessions?

All communication between web browsers and servers is via HTTP, which is stateless.

Django uses a cookie containing a special session id to identify each browser and its associated session with the site

Q10.What is Filter in Django?

Django-filter is a generic, reusable application to alleviate writing some of the more mundane bits of view code.

Specifically, it allows users to filter down a queryset based on a model's fields, displaying the form to let them

do this. Adding a FilterSet with filterset\_class. Using the filterset\_fields shortcut.

Q11 What is get in Django?

Django's login form is returned using the POST method, in which the browser bundles up the form data, encodes it for transmission,

sends it to the server, and then receives back its response.

Q12 django templetes

A Django template is a text document or a Python string marked-up using the Django template language.

Some constructs are recognized and interpreted by the template engine. ... A template is rendered with a context.

Q13 OOPS concepts

Class.

Object.

Method.

Inheritance.

Polymorphism.

Data Abstraction.

Encapsulation

Q14 Write a query to find the max marks from the student table

Select max(marks)

From student

Q15Write a query to find the second highest marks from student table

Select max(marks)

From student

Where marks < (Select max(marks)

From student);