

**Total Marks – 25**

**Pass Marks – 12**

**Time: 1 hr 15 minutes [ Try to Attempt all questions ]**

**Objective – 1\*10 marks**

1. What is the Django command to start a new app named ‘users’ in an existing project?

- a) `manage.py –newapp users`
- b) `manage.py newapp users`
- c) `manage.py –startapp users`
- d) `manage.py startapp users`

2. What are the features available in Django web framework?

- a) Admin Interface (CRUD)
- b) Templating
- c) Form handling
- d) All of the above

3. What are the advantages of using Django for web development?

- a) It facilitates you to divide code modules into logical groups to make it flexible to change
- b) It provides auto-generated web admin to make website administration easy
- c) It provides pre-packaged API for common user tasks
- d) All of the above

4. What Commands are used to create a project in Django?

- a) Project
- b) `_init_.py`
- c) `manage.py`
- d) All of the above mentioned

5. What is called when a function is defined inside a class?

- a) Module
- b) Another Function
- c) Method
- d) Class

6. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.pop(1)?

- a) [3, 4, 5, 20, 5, 25, 1, 3]
- b) [1, 3, 3, 4, 5, 5, 20, 25]
- c) [3, 5, 20, 5, 25, 1, 3]
- d) [1, 3, 4, 5, 20, 5, 25]

7. What will be the output of the following Python code?

```
x = ['ab', 'cd']
```

```
for i in x:
```

```
    x.append(i.upper())
```

```
print(x)
```

- a) ['AB', 'CD']
- b) ['ab', 'cd', 'AB', 'CD']
- c) ['ab', 'cd']
- d) none of the mentioned

8. To add a new element to a list we use which command?

- a) list1.add(5)
- b) list1.append(5)
- c) list1.addLast(5)
- d) list1.addEnd(5)

9. To remove string “hello” from list1, we use which command?

- a) list1.remove(“hello”)
- b) list1.remove(hello)

- c) `list1.removeAll("hello")`
- d) `list1.pop("hello")`

10. What will be the output of the following Python code snippet?

```
print ( [ i.lower() for i in "HELLO" ] )
```

- a) `['h', 'e', 'l', 'l', 'o']`
- b) `'hello'`
- c) `['hello']`
- d) `hello`

**Define the Following Terms. Answers must be short and to the point [7 marks]**

- a) What is templating in Django? [1.5]
- b) What is an API and Why do we use an API? [2]
- c) What is the role of middleware in Django? [1.5]
- d) Describe a basic workflow of Django? [2]

**Write a Python Program to Find the Sum of Digits in a Number [3 marks]**

**Case 1:**

Enter a number:1892

The total sum of digits is: 20

**Case 2:**

Enter a number:157

The total sum of digits is: 13

**Define a function which can generate a dictionary where the keys are numbers between 1 and 20 (both included) and the values are square of keys. The function should just print the keys only. [5 marks]**