

Q1:- Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions.

1.It is a lightweight framework that offers hassle-free development. 2.Provide flexibility to the developer to experiment with their modules or architecture. 3.It is suitable for small projects. 4.Offers a built-in development server and fast debugger. 5.Easily scalable for the applications. 6.Support for secure cookies.

Q2 from flask import Flask, jsonify, request

```
app = Flask(name)
```

```
@app.route('/hello', methods=['GET']) def helloworld(): if(request.method == 'GET'): data = {"data": "Hello World"} return jsonify(data)
```

```
if name == 'main': app.run(debug=True)
```

<http://127.0.0.1:5000/hello>

Q3 App routing is the technique used to map the specific URL with the associated function intended to perform some task. The Latest Web frameworks use the routing technique to help users remember application URLs. It is helpful to access the desired page directly without navigating from the home page. Modern web frameworks use more meaningful URLs to help users remember the URLs and make navigation simpler.

Q4

```
from flask import Flask
```

```
app = Flask(name)
```

```
@app.route("/Company Name: ABC CorporationLocation: India Contact Detail: 999-999-9999") def hello(): return "Welcome to ABC Corporation"
```

```
if name == "main": app.run(debug=True)
```

Q5 The url_for() method, is used to prepare a URL, for a function dynamically, such that, changing URLs, in the application, is avoided. It accepts, the name of the view function, as the first argument, and, any number of keywords, to be sent(to the view function), as the second argument.

```
from flask import *
```

```
app = Flask(name)
```

```
@app.route('/admin')
def admin():
    return 'admin'

@app.route('/librarian')
def librarian():
    return 'librarian'

@app.route('/student')
def student():
    return 'student'

@app.route('/user/')
def user(name):
    if name == 'admin':
        return redirect(url_for('admin'))
    if name == 'librarian':
        return redirect(url_for('librarian'))
    if name == 'student':
        return redirect(url_for('student'))
    if name == main:
        app.run(debug = True)
```

In []: