Subject Code:- ACSE0512

Roll. No:

Time: 3 Hours   Max. Marks: 100

General Instructions:

IMP: *Verify that you have received the question paper with the correct course, code, branch etc.*

1. *This Question paper comprises of* **three Sections -A, B, & C.** *It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.*

2. *Maximum marks for each question are indicated on right -hand side of each question.*

3. *Illustrate your answers with neat sketches wherever necessary.*

4. *Assume suitable data if necessary.*

5. *Preferably, write the answers in sequential order.*

6. *No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.*

SECTION A   20

1. Attempt all parts:-

1-a.   pip stand for in python.(CO1)   1

       (a) Unlimited length

       (b) All private members must have leading and trailing underscores

       (c) Preferred Installer Program

       (d) None of the mentioned

1-b.   MVC pattern is based on _____ components.(CO1)   1

       (a) 1

       (b) 3

       (c) 4

       (d) 2

1-c.   In MVC pattern , Model is the component which contains ? (CO2)   1

       (a) Input Logic

       (b) UI Logic

       (c) Business Logic

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(d) Output Logic

1-d. Advantages of Django are _____.(CO2) 1

(a) Excellent Documentation

(b) Rapid development

(c) Neither (a) nor (b)

(d) Both (a) and (b)

1-e. Django authentication system handles (CO3) 1

(a) User accounts

(b) Groups

(c) Permission and cookie based user session

(d) All of the above

1-f. SECRET_KEY works for. (CO3) 1

(a) Cryptographic signing

(b) Authentication

(c) Python's built-in secrets module.

(d) All of the above

1-g. Which of these variables are the settings for django contib staticfiles app? (CO4) 1

(a) STATIC_URL

(b) STATIC_ROOT

(c) STATICFILES_DIRS

(d) All of the above

1-h. Caching strategies in Django are. (CO4) 1

(a) File sytem caching

(b) In-memory caching

(c) Both A and B

(d) None

1-i. After addig a file in Github or Git, it becomes. (CO5) 1

(a) Committed

(b) Untracked

(c) Staged

(d) Modified

1-j. Choose a shortcut to staging all the changes you have. (CO5) 1

(a) Git add

(b) Git commit

(c) Git commit add

(d) None of the these

2. Attempt all parts:-

2.a.	Define Django Framework. (CO1)	2
2.b.	Express what are Django Models. (CO2)	2
2.c.	Discuss Django Authentication System. (CO3)	2
2.d.	Demonstrate how cookies work in Django. (CO4)	2
2.e.	What do you mean by the term Heroku? (CO5)	2

SECTION B   **30**

3. Answer any <u>five</u> of the following:-

3-a.	Explain Zappa and Fask in detail. (CO1)	6
3-b.	Explain Django architecture with Diagram.(CO1)	6
3-c.	With suitable diagram explain Django Views and Urls. (CO2)	6
3-d.	Explain Django with its unique features in detail. (CO2)	6
3.e.	Explain the way to add grid layout on registration page. (CO3)	6
3.f.	Discuss the ways you can set up the database in Django. (CO4)	6
3.g.	Explain how to push project from local system to Github. (CO5)	6

SECTION C   **50**

4. Answer any <u>one</u> of the following:-

4-a.	Explain Tkinter-GUI applications in detail with example. (CO1)	10
4-b.	Explain any five frameworks in python for Web development. (CO1)	10

5. Answer any <u>one</u> of the following:-

5-a.	Django comes with a default database which is SQLite. How do you connect your Django project to the database? (CO2)	10
5-b.	Django can be broken into many components like model.py , url.py and view.py explain each in brief ? (CO2)	10

6. Answer any <u>one</u> of the following:-

6-a.	Explain the authentication and authorization system in django.Discuss the difference between them. (CO3)	10
6-b.	Explain User, Groups and Permission with respect to django authentication system. (CO3)	10

7. Answer any <u>one</u> of the following:-

7-a.   Explain the file structure of a typical Django project. (CO4)   10

7-b.   Elaborate different types of middleware. Define the Django Middleware   10
       Structure. (CO4)

8. Answer any <u>one</u> of the following:-

8-a.   What is the difference between Decentralized and Centralized Version Control   10
       system ? (CO5)

8-b.   Name a few Git commands with their function. (CO5)   10