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Subject Code:- ACSE0512

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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: V - CARRY OVER THEORY EXAMINATION - APRIL 2023

Subject: Python Web Development with Django

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. Which of these is not a core data type? (CO1)

1

(a) List

(b) Tupples

(c) Dictionary

(d) Class

1-b. What is the Django command to start a new app named 'users' in an existing project? (CO1)

1

(a) Manage

(b) manage.py newapp users

(c) manage.py ""startapp users

(d) manage.py startapp users

1-c. Django is based on ____ framework. (CO2)

1

(a) MVT

(b) MVM

- (c) TVM
- (d) VTM
- 1-d. Django web framework is managed and maintained by an independent and non-profit organization called ? (CO2) 1
- (a) DSF
- (b) MSF
- (c) BSF
- (d) RSF
- 1-e. Cross site scripting include (CO3) 1
- (a) XSS attacks allow a user to inject client side scripts into the browsers of other users
- (b) Storing the malicious scripts in the database
- (c) XSS attacks can originate from any untrusted source of data, such as cookies or web services
- (d) All of the above
- 1-f. Cache poisoning occurs (CO3) 1
- (a) When incorrect data enter into django project
- (b) When incorrect information is handled by cache
- (c) When incorrect data is inserted into DNS repository cache.
- (d) None of the above
- 1-g. If `MyObject.objects.get()` is called with parameters that do not match an existing item in the database, what happens? (CO4) 1
- (a) The `Http404` exception is raised
- (b) The `DatabaseError` exception is raised
- (c) The `MyObject.DoesNotExist` exception is raised
- (d) The object is created and returned
- 1-h. The order of the middleware is very important because one depend to another. (CO4) 1
- (a) Yes it is true
- (b) Not true
- (c) Cant say
- (d) May be
- 1-i. What command lets you create a connection between a local and remote repository? (CO5) 1

- (a) Git remote add new
- (b) Git remote add origin
- (c) Git remote new origin
- (d) Git remote origin

1-j.	Heroku is a ____ (CO5)	1
	(a) Software as a Service (SaaS)	
	(b) Platform as a Service (PaaS)	
	(c) Infrastructure as a Service (IaaS)	
	(d) Computer as a Service (CaaS)	

2. Attempt all parts:-

2.a.	Define web Framework. (CO1)	2
2.b.	What are Django cookies? (CO2)	2
2.c.	Describe the role of UserCreationForm in django. (CO3)	2
2.d.	Define init() in middleware. (CO4)	2
2.e.	Explain the term repo or repositories ? (CO5)	2

SECTION B

30

3. Answer any five of the following:-

3-a.	Explain Flask and Django in detail. (CO1)	6
3-b.	Summarize the advantages of Django over Flask? (CO1)	6
3-c.	Describe which architectural pattern does Django follow explain? (CO2)	6
3-d.	Explain the basic concept of GET and POST methods with suitable Diagram. (CO2)	6
3.e.	Describe how to perform login functionality test and logout. (CO3)	6
3.f.	Explain database migration process in detail. (CO4)	6
3.g.	Why does Python need WSGI? (CO5)	6

SECTION C

50

4. Answer any one of the following:-

4-a.	Explain the steps of installation of Zappa and flask with code. (CO1)	10
4-b.	Explain Flask. Also explain its Debug mode. (CO1)	10

5. Answer any one of the following:-

5-a.	What is the Request-Response Lifecycle In Django? Explain Http request in details? (CO2)	10
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5-b. Explain how to add Email Field in Django Forms, also explain Configuring email settings in Form.(CO2) 10

6. Answer any one of the following:-

6-a. Explain User, Groups and Permission with respect to django authentication system. (CO3) 10

6-b. How to restrict access with decorator function explain with example. (CO3) 10

7. Answer any one of the following:-

7-a. Describe Django caching. And explain the strategies used to implement it. (CO4) 10

7-b. Describe how can you set up the database in Django? (CO4) 10

8. Answer any one of the following:-

8-a. Explain Heroku with its benefits. Is it possible to perform database migration on Heroku, Justify your answer. (CO5) 10

8-b. Explain Gunicorn and WSGI in detail. (CO5) 10