Printed Page:- 03 Subject Code:- ACSE0512 **Roll. No:** NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow) **B.Tech** SEM: V - THEORY EXAMINATION (2023 - 2024) 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. 20

SECTION-A

1 Attempt all parts.

(c)

Oracle

| 1. Au | cmpt a | | |
|-------|--------|---|---|
| 1-a. | W | Thich of these is not a core data type? (CO1) | 1 |
| | (a) | List | |
| | (b) | Tupple | |
| | (c) | Dictionary | |
| | (d) | Class | |
| 1-b. | D | jango supports the pattern. (CO1) | 1 |
| | (a) | MVI | |
| | (b) | MVP | |
| | (c) | MVC | |
| | (d) | MVZ | |
| 1-c. | D | jango is a web framework written in ? (CO2) | 1 |
| | (a) | Java | |
| | (b) | Ruby On Rail | |
| | (c) | C++ | |
| | (d) | Python | |
| 1-d. | D | jango by default Supports the which database .(CO2) | 1 |
| | (a) | PostgreSQL | |
| | (b) | MySQL | |

N

| | (d) | SQLite | |
|---------------|--------|--|---|
| 1-e. | D | jango authorization system gives. (CO3) | 1 |
| | (a) | Authentication | |
| | (b) | Authorization | |
| | (c) | Access to user group | |
| | (d) | To all of the above | |
| 1-f. | | n execution of this command : > python manage.py createsuperuser will provide ou. (CO3) | 1 |
| | (a) | It will ask for name and password of the superuser. | |
| | (b) | It will create an admin superuser. | |
| | (c) | Both A and B | |
| | (d) | None of the above | |
| 1-g. | M | ligrations in Django are (CO4) | 1 |
| | (a) | They are files saved in migrations directory. | |
| | (b) | They are created when you run make migrations command. | |
| | (c) | Migrations are files where Django stores changes to your models. | |
| | (d) | All of the above | |
| 1-h. | D | atabase Django officially supports is (CO4) | 1 |
| | (a) | PostgreSQL | |
| | (b) | MySQL | |
| | (c) | Oracle | |
| | (d) | All of the above | |
| 1-i. | W | /hich is Distributed version control system? (CO5) | 1 |
| | (a) | Perforce | |
| | (b) | CVS | |
| | (c) | SVN | |
| | (d) | GIT | |
| 1 - j. | G | unicorn 'Green Unicorn' is a Python (CO5) | 1 |
| | (a) | WSGI | |
| | (b) | ASGI | |
| | (c) | MSGI | |
| | (d) | NSGI | |
| 2. Atte | empt a | all parts:- | |
| 2.a. | W | rite any five feature of python. (CO1) | 2 |
| 2.b. | W | /hat architecture does Django use? (CO2) | 2 |
| 2.c. | D | escribe the role of ssl/https in django security. (CO3) | 2 |
| 2.d. | D | escribe Database migration. (CO4) | 2 |
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| 2.e. | Explain the term repo or repositories ? (CO5) | 2 | | | |
|---|--|----|--|--|--|
| SECTION-B 30 | | | | | |
| 3. Answ | er any <u>five</u> of the following:- | | | | |
| 3-a. | Explain Zappa and Fask in detail. (CO1) | 6 | | | |
| 3-b. | Explain Websrapping with example. (CO1) | 6 | | | |
| 3-c. | Discuss django MVC architecture in details with diagram ? (CO2) | 6 | | | |
| 3-d. | Why is Django called a loosely coupled framework? (CO2) | 6 | | | |
| 3.e. | Write the steps to add an email feild in django form.How different fiels can be added in UserCreationForm. (CO3) | 6 | | | |
| 3.f. | Discuss the ways you can set up the database in Django. (CO4) | 6 | | | |
| 3.g. | List some popular applications using Heroku? (CO5) | 6 | | | |
| <u>SECTIO</u> | <u>DN-C</u> | 50 | | | |
| 4. Answ | er any <u>one</u> of the following:- | | | | |
| 4-a. | Explain Tkinter-GUI applications in detail with example. (CO1) | 10 | | | |
| 4-b. | Write short notes on : a.)ChainMap b.)Counter c.)Deque. (CO1) | 10 | | | |
| 5. Answ | er any <u>one</u> of the following:- | | | | |
| 5-a. | What are the various files that are created with a Django Project? Explain briefly. (CO2) | 10 | | | |
| 5-b. | What is Django ? Define its convenient features in details. (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 Django's Top 10 Vulnerabilities in details . (CO3) | 10 | | | |
| 7. Answ | er any <u>one</u> of the following:- | | | | |
| 7-a. | Explain how do you send data from view to template. (CO4) | 10 | | | |
| 7-b. | Explain Django ORM in brief. How it is used to map object in database. (CO4) | 10 | | | |
| 8. Answer any one of the following:- | | | | | |
| 8-a. | Write complete steps to Creating a functional website in Django. (CO5) | 10 | | | |
| 8-b. | Explain Version control system. What are the advantages and disadvantages of Git and GitHub. (CO5) | 10 | | | |

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