

Instructions :

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION - I**Q-1: Fill in the blanks****[11]**

1. By using _____ Django handle URL routing?
2. _____ is the default database used in Django?
3. _____ is the purpose of the "migrations" folder in Django?
4. _____ is the purpose of the "init.py" file in Django?
5. _____ is the preferred way to start a new Django project?
6. _____ is Django's File Field used for?
7. _____ is the protocol used in REST?
8. _____ is the HTTP Status Code Related to Page Not Found?
9. _____ is the purpose of the "settings.py" file in Django?
10. In Django, data is created in objects, what are these objects called _____.
11. _____ template tag is used to create variables directly in the Django template?

Q-2: Answer the following questions (2 marks each)**[12]**

1. What is SQL Injection?
2. What are the Sessions?
3. What do you mean by the csrf_token?

OR

3. What are Django URLs?
4. How to create Multiple forms using Django Framesets?
5. Importance of virtual environment setup for Django.

OR

5. Difference between authorization and authentication. (any two)
6. What is the difference between Flask and Django?

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Q-3 : Answer the following questions (3 marks each)

[12]

1. How to upload an image file using AJAX?

OR

1. What is the latest version of Django? And explain its features.
2. What architecture does Django use? And how it works

OR

2. How do Django views and URL work?
3. Why is Django called a loosely coupled framework?
4. Explain the architecture of Django.

SECTION - II

Q-4: Answer the following questions

[11]

1. Develop a Django application to manage a library's book collection. Users (librarians) should be able to:
 - a. **Create** new book entries with details like title, author, ISBN, publication date, genre(Type of the book), and quantity.
 - b. **Read** existing book information, either individually or in a filtered list.
 - c. **Update** book details (e.g., quantity after borrowing, genre changes).
 - d. **Delete** books that are no longer part of the library's collection.

Q-5 : Answer the following questions

[12]

1. What is MIDDLEWARE? Explain with example.
2. What is REST Framework? Explain its security types

OR

2. How to create Multiple forms using Django Formsets?
3. Explain Django's default and custom behavior in brief.

Q-6: Answer the following questions

[12]

1. Explain Relationship in Django model with example.
2. Write a program to enter any number and get total of that number.

Enter number :

Total

3. Explain two advantages of using Class-Based Views(CBVs) over Function-Based Views(FBVs) in Django development.

OR

4. How to add social authentication using Django-allauth to your Django project?

:: All The Best ::

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Candidate's Seat No : _____

Integ. M.Sc. (CS) Semester 6 Examination

Artificial Intelligence

Time : 3-00 Hours]

June-2024

[Max. Marks : 70

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SECTION – I

- Q-1 Answer the following (**any five**): **(10)**
- a. Brief Turing's test.
 - b. Write Breadth First Search algorithm.
 - c. Explain Back Propagation algorithm.
 - d. What are the problems faced when we use Hill Climbing techniques?
 - e. Brief about Minimax method.
 - f. Explain proactive property of an intelligent agent.
- Q-2 Attempt the following (**any five**): **(25)**
- a. Difference between Biological and Artificial Neuron with labelled diagrams.
 - b. Explain in detail types of Environments (any five).
 - c. Write a short note on expert system MYCIN.
 - d. Explain Steepest Ascent Hill Climbing method.
 - e. Take any two-problem characteristic of your choice and give its answer, along with proper reasoning for: travelling salesman and 8 puzzle problem.
 - f. Explain Magic Square AI technique to solve tic-tac-toe. Write advantages and disadvantages also.

SECTION – II

- Q-3 Write Semantic Network representation for the following sentences: **(10)**
- a. I live in a green multi-storied building near Sabarmati riverfront.
 - b. Vinay is talking to Kumar about Lok Sabha Elections.
 - c. Kartik is eating a pineapple.

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- d. I own a blue-coloured glass water bottle.
- e. Anita went to an Italian restaurant and ordered pizza.

Q-4 Write Predicate Logic representation for the following sentences: (10)

- a. Nobody likes to pay taxes.
- b. Anything anyone eats and is not killed by is food.
- c. Hardik likes to watches Doraemon but not Shinchon.
- d. All that glitters is not gold.
- e. Not everyone passed the final exam.

Q-5 Attempt the following (**any three**): (15)

- a. Difference between NLP, NLU and NLG.
- b. Explain Posswin AI technique to solve tic-tac-toe.
- c. Explain Best First Search algorithm with the help of an example.
- d. Explain simple reflex agent and model-based reflex agent.

—X—