CB

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MASTER OF COMPUTER APPLICATIONS (MCA)
EXAMINATION : MAY- 2026
SEMESTER - II
Sub : Django Web Framework (MCA24-203)

Date : 29/05/2026 **Total Marks : 60** **Time: 10.00 am To 12.30 pm**

Instruction:

1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagram wherever necessary.*

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. Differentiate between MVC and MVT architecture.
2. Explain how to create and configure a URL pattern in Django to route requests to a specific view function..
3. What is the use of manage.py in Django projects?
4. Differentiate between models.py and views.py in a Django application.
5. Write a simple Django model for a Book with fields: title, author, published_date.
6. What is the purpose of migrations in Django? How do you create and apply a migration?
7. What is the role of urls.py in a Django project? Write an example URL pattern.

Q. 2. Answer the following in short. (Any 4) (20)

1. How do you use template inheritance in Django? Write an example of extending a base template**.**
2. Explain Function-Based Views (FBVs) along with their advantages and disadvantage.
3. Share a real-world example of Django with a proper breakdown of its components.
4. Define Django. List any three advantages of using Django for web development.
5. How do you configure a database in Django? List the default database engine Django uses, and explain how it ties into the initial environment setup.
6. Explain the difference between GET and POST methods in Django forms and requests

Q. 3. Answer the following in detail. (Any 3) (30)

1. Write a detailed note on: Django Templates, including variable rendering, tags, filters, and inheritance.
2. Write a detailed note on: Django Views, focusing on how function-based views process requests and render responses.
3. Explain the complete request-response lifecycle in Django. Provide a detailed flow diagram depicting data flow and interactions within the MVT pattern.
4. Write the exact steps to create a Django project and an app from scratch. Include all necessary terminal commands and explain the resulting project structure.
5. Create a comprehensive URL configuration for a Django web application. Detail how you would implement regular expressions in URL patterns and set up URL namespaces with practical examples.