

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination**Oct/Nov-2022 (NEW COURSE)****Web Application Development Using Django (Core (New))****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following questions. (03)
1. Write a command to execute python file p1.py from command line.
 2. _____ symbol is used to write comment in python program.
 3. Give output of following.
 4. `a="PYTHON"; print a[::-1]`
- Q.1(B) Answer the following questions. (Any Two) (06)
1. Explain break, continue and pass statement.
 2. Explain how to write user defined function with example.
 3. Explain different methods to copy collections.
 4. Explain format and lambda function.
- Q.1(C) Answer the following questions. (Any One) (05)
1. Write short note on collections in Python.
 2. Write short note loop constructs in python.
- Q.2(A) Answer the following questions. (03)
1. A _____ is a software framework that is designed to support the development of web applications including web services, web resources, and web APIs.
 2. _____ are Python objects that define the structure of an application's data, and provide mechanisms to manage (add, modify, delete) and query records in the database.
 3. _____ is full form of MVT.
- Q.2(B) Answer the following questions. (Any Two) (06)
1. What is Django? Explain MVT design pattern.
 2. Explain how to use template in view file.
 3. Explain if construct in DTL with example.
 4. Explain manage.py and admin.py.
- Q.2(C) Answer the following questions. (Any One) (05)
1. Explain how to create project and its directory structure. How to setting for template.
 2. Explain template filters.
- Q.3(A) Answer the following questions. (03)
1. By default, _____ database is used with Django.
 2. From python shell _____ command is used to save the record.
 3. In Models, character data are stored with _____ datatype.
- Q.3(B) Answer the following questions. (Any Two) (06)
1. Explain field types in django.db.models.
 2. What is Database engine in Django? Write name of database engine used in Django.
 3. Write how to configure SQLite database in Django.
 4. Explain how to insert and display data from python shell.

- Q.3(C) Answer the following questions. (Any One) (05)
1. Write short note on Models in Django.
 2. Create a project to display all records from employee table and delete selected record.
- Q.4(A) Answer the following questions. (03)
1. Which application should be installed in INSTALLED_APPS to used admins site?
 2. How to create administrator user?
 3. The _____ class is the representation of a model in the admin interface.
- Q.4(B) Answer the following questions. (Any Two) (06)
1. Explain ModelAdmin.fields.
 2. Explain Djanog's role in forms.
 3. Explain how to Render HTTPResponse to templates.
 4. Explain context data and python dictionary.
- Q.4(C) Answer the following questions. (Any One) (05)
1. Write short note on Form Validations.
 2. Explain Django.contrib package.
- Q.5(A) Answer the following questions. (03)
1. By default, Django stores sessions in your database model ____.
 2. If you want to use a database-backed session, you need to add _____ to your INSTALLED_APPS setting.
 3. Write command to execute test.
- Q.5(B) Answer the following questions. (Any Two) (06)
1. Explain Cookies.
 2. What does django provide for testing?
 3. Explain configuration settings for sessions.
 4. Explain unittest2 framework.
- Q.5(C) Answer the following questions. (Any One) (05)
1. Write short note on unit test provided by Django.
 2. Explain how to use session in views and outside the views.
