21CS62

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025
Full Stack Development

Time: 3 hrs.

Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Explain how to configure urls in urls.py. Develop a program to display current data and five, and 4 days ahead. **(10 Marks)**

  b. What is a web framework? List and explain features of django framework. Explain MVC framework/architecture with a diagram. **(10 Marks)**

OR

2 a. What is loose coupling? Demonstrate the concept of URL confs and loose coupling by taking an example. **(10 Marks)**

  b. Develop a python CGI script to display ten most recently published books from the database table. **(10 Marks)**

Module-2

3 a. Develop a program to demonstrate the following concepts :
   i)   Selecting objects
   ii) Filtering data
   iii) Retrieving single objects
   iv) Slicing data. **(10 Marks)**

  b. Develop a program to display
   i)   Unordered list of fruits
   ii) List of students from a database table. **(10 Marks)**

OR

4 a. Develop a program to demonstrate the concept of :
   i)   Ordering data
   ii) Reverse ordering data
   iii) Updating objects
   iv) Deleting objects. **(10 Marks)**

  b. What is template inheritance? Develop program to demonstrate template inheritance. **(10 Marks)**

Module-3

5 a. In URL conf, demonstrate with code, the concept of streamlining function imports. **(10 Marks)**

  b. Develop a program to demonstrate the Concept of Form and Model Form. **(10 Marks)**

OR

6 a. Develop contact form and show how to tie the form to a view. **(10 Marks)**

  b. List and explain all the steps to be followed up to migration. Write a sample model class. **(10 Marks)**

Module-4

7 a. Develop a program to download the contents of a students table to excel (CSV) file. **(10 Marks)**

  b. Develop program for registering student and displaying a list of students. When a student is selected, display more details about student using django ListView and DetailView. **(10 Marks)**

OR

8 a. Develop a program to download the contents of students table to PDF file. **(10 Marks)**

  b. What is Syndication feed? Develop a program to display latest file blogs using a Simple feed. **(10 Marks)**

Module-5

9 a. What is XMLHttpRequest? List and briefly explain the properties and methods of XMLHttpRequest. **(10 Marks)**

  b. Design and develop a program to demonstrate Ajax calls in jQuery. **(10 Marks)**

OR

10 a. List the technologies on which ajax is overlaid, briefly explain HTML/XHTML, XML, JSON. **(10 Marks)**

  b. Develop a registration page for student enrolment without page refresh using AJAX. **(10 Marks)**

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