CBCS SCHEME

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21CS62

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Full Stack Development

Time: 3 hrs. Max. Marks: 100

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

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Explain the need of a web framework highlighting the disadvantages in one off dynamic script that uses a specific DMBS library. **(10 Marks)**

b. How would you start a new Django project and app? List the steps. **(05 Marks)**

c. Write a python function in Django framework views.py and urls.py that display current date and time in server. **(05 Marks)**

OR

2 a. Describe the role of various wild cards in creating dynamic URLs with any example. **(06 Marks)**

b. With a flow diagram, explain the processing of Django request and response. **(06 Marks)**

c. Develop a Django that displays current date and time in server. **(08 Marks)**

Module-2

3 a. Define a Django Template, write a simple python function that creates Template object and renders it. (write html file, views.py and urls.py) **(10 Marks)**

b. Explain various Template Tags and Filters with example code. **(10 Marks)**

OR

4 a. Define Template Inheritance and explain the usefulness of template inheritance with any example code. **(10 Marks)**

b. Develop a Django app that performs student registration to a course. It should also display list of students registered for any selected course. Create students and course as models with enrolment as many-to-many field. **(10 Marks)**

Module-3

5 a. Explain various features available in Django administration interfaces. **(10 Marks)**

b. Develop a model form for student that contains his topic chosen for project, languages used and duration with a model called project. **(10 Marks)**

OR

6 a. Describe the working of captured parameters and extra URL conf with include( ). **(10 Marks)**

b. Explain Django Model Forms with example program. **(10 Marks)**

Module-4

7 a. Explain object based generic view with example. (10 Marks)

b. Create a generic class view which displays list of students and detail view that displays student details for any selected student in the list. (10 Marks)

OR

8 a. Explain the various methods and attributes of sitemap class. (10 Marks)

b. Develop a python code for generating CSV and PDF file for any model. (10 Marks)

Module-5

9 a. Explain the various methods and properties of XMLHttpRequest object. (10 Marks)

b. Differentiate HTML, XML and XHTML. How JSON is better than XML for data presentation. (10 Marks)

OR

10 a. Write short notes on : (10 Marks)
i) UI Auto complete ii) iFrames

b. Develop a search application in Django using AJAX that displays courses enrolled by a student being searched. (10 Marks)

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