

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE, 2025

Paper Code: BCAT-218 Subject: Web Development with Python and Django

Time: 3 Hours

Maximum Marks: 60

**Note: Attempt five questions in all including Q.No.1 which is compulsory.
Select one question from each unit.**

- Q1.** Attempt the following: **(2x10=20)**
- (a) How we add field in model? Illustrate with the suitable example.
 - (b) What is the view? How to create a view in Django?
 - (c) How do we use the boolean operator in Django? Explain with a suitable example.
 - (d) How do we add image in django? Write down steps.
 - (e) What is flush? Illustrate with suitable example.
 - (f) How do we use the is_valid () function in Django?
 - (g) Why do we use CSRF in Django? Illustrate with suitable example.
 - (h) How do we use if else in Django? Explain with a suitable example.
 - (i) How we assign choices field in model? Illustrate with the suitable example.
 - (j) How we customizing django admin templates? Illustrate with the suitable example.

Unit - I

- Q2.** (a) Explain MVT and MVC architecture of Django Framework with the help of suitable diagram. **(5)**
(b) Why do we use views and URLs in Django? Explain how to Mapping URLs to Views and processing requests. **(5)**
- Q3.** What do you mean by management of variables? Explain with the help of suitable examples. Write a menu driven program to implement a calculator which performs only addition, subtraction, multiplication and division. **(10)**

Unit - II

- Q4.** (a) How to create a view with Dynamic URL in Django. Explain with suitable example. **(5)**
(b) What is for loop? How do we use a for loop in the Django template system? **(5)**
- Q5.** How many types of form fields are available in Django? Write a program to show employee information (max:4 fields) using Django Form field. **(10)**

Unit - III

- Q6.** (a) Write down steps of configuring the database and defining models in django. **(5)**
(b) How to apply validation on field and relationship in a model? Illustrate with suitable example. **(5)**
- Q7.** Write a program to design a feedback form on django using model and perform crud operation on this model. **(10)**

Unit - IV

- Q8.** (a) What are cookies? How do we set and get cookies in Django? Illustrate with suitable example. **(5)**
(b) How we create a superuser in Django? Write down the steps of creation and change password of superuser. **(5)**
- Q9.** (a) What is session? How we create and destroy session in Django? **(4)**
(b) What is cryptographic signing? How do we use cryptographic signing for securing in Django. Illustrate with suitable example. **(6)**

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