



Seat No. \_\_\_\_\_

**HAK-003-1083002**  
**M. Sc. (IT & CA) (Sem.-III)**  
**(CBCS) (W.E.F. 2016) Examination**  
**May - 2023**  
**Web Application Development**  
**Using Django : CS-14**

**Faculty Code : 003**  
**Subject Code : 1083002**

Time :  $2\frac{1}{2}$  Hours / Total Marks : 70

- Instructions :** (1) All main questions are compulsory.  
(2) Draw diagrams wherever necessary.

**UNIT - I**

- 1 (a) Answer the following : 4
- (1) Full form of IDLE \_\_\_\_\_.
  - (2) The colon (:) allows multiple statements single line in Python (True/false).
  - (3) \_\_\_\_\_ is default database used in Django framework.
  - (4) Python is object oriented, modular and dynamic programming language. (true/false)
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is dynamically typed language ?
  - (2) Explain list data type with example.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write difference between List and Dictionary data types.
  - (2) Explain tuple data type with example.
- (d) Write short notes : (any 1 out of 2) 5
- (1) Write advantage and disadvantage of python language.
  - (2) How to define users function in python ? Explain with example.

## UNIT - II

- 2 (a) Write the use of following commands : 4
- (1) http is connectionless and stateless protocol.  
(True/false)
  - (2) Full form of DTL.
  - (3) Python manage.py startproject
  - (4) Python manage.py flush
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is web application ? Explain in brief.
  - (2) Explain Django framework lifecycle.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write short note on MVC architecture framework.
  - (2) Write use of admin.py and url.py file in Django framework.
- (d) Write short note : (any 1 out of 2) 5
- (1) Write short note on Django Template system.
  - (2) Write advantages and disadvantages of Django Framework.

## UNIT - III

- 3 (a) Answer in one word/line. 4
- (1) What is the use of command python manage.py migrate.
  - (2) Django models are stored in \_\_\_\_\_ file located inside Django App folder.
  - (3) model.AutoFields()
  - (4) model.URLFields()
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain any two Django Model data types.
  - (2) Explain model.DateField () and model.TimeField() model data types.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) What is the use of Django validator methods ? Explain any two built in validator methods.
  - (2) How to define primary key and foreign key in model.
- (d) Write short note : (any 1 out of 2) 5
- (1) Write steps to configure and migrate MySQL database in Django.
  - (2) Write steps to create model file and migrate into database.

## UNIT - IV

- 4 (a) Answer one word/line. 4
- (1) admin.site.register ()
  - (2) form.is\_valid ()
  - (3) \_\_\_\_\_ command is used to create admin user in Django admin panel.
  - (4) When a page is requested, Django creates an HttpRequest object (true/false)
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is use of HttpRequest and HttpResponse object ?
  - (2) Explain the use of `_all_` with example.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write short note on Form validation in Django.
  - (2) Explain the use of forms.CharField and forms.DecimalField.
- (d) Write short note : (any 1 out of 2) 5
- (1) How to activate and configure admin panel in Django ?
  - (2) List only basic setting of Django model forms.

## UNIT - V

- 5 (a) Answer in one word/line : 4
- (1) Python manage.py test.
  - (2) Unit Test
  - (3) What is PIP ?
  - (4) The classed needed to write tests are to be found in the 'Unitest' module (True/false)
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is an automated test ?
  - (2) How to setting up Cache in File System ?
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Explain set\_expiry() and clear\_expired() methods.
  - (2) How to manage cookie and sessions in Django ? Explain with example.
- (d) Write short note : (any 1 out of 2) 5
- (1) Write advantage of testing application Django
  - (2) Describe steps are involved in writing simple unit test.