



PA-003-1083002

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

**M. Sc. (IT) (Sem. III) (CBCS) (W.I.F. 2016)**

**Examination**

**May / June - 2018**

**CS - 14 : Web Application Development Using  
Django**

**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.

**Question - 1 (Unit - 1)**

- 1 (a) Fill in the blanks : 4
- (1) A \_\_\_\_\_ is sequence of immutable Python objects.
  - (2) The term \_\_\_\_\_ is a commonly used short form meaning "regular expression".
  - (3) \_\_\_\_\_ Database is included in Python.
  - (4) Full form of IDLE is \_\_\_\_\_.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain Python membership operators.
  - (2) Explain Dictionary data type with example.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write Advantages and Disadvantages of Python.
  - (2) List and explain in brief data types of Python.

- (d) Write short note : (any 1 out of 2) 5
- (1) How to define function in Python ? Explain with example.
  - (2) Write a Python program to accept score as number and give output as below :
    - (a) If score more than 90 print "Excellent"
    - (b) If score between 70-90 print "Very Good"
    - (c) If score between 50-70 print "Good"
    - (d) If score less than 50 print "Poor"

### Question - 2 (Unit - 2)

- 2 (a) Write the use of following commands : 4
- (1) python manage.py flush
  - (2) python manage.py sqlmigrate
  - (3) python manage.py runserver 8080
  - (4) python manage.py dumpdata
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is Web Application ? Write benefit of Web Application.
  - (2) Describe structure of Django project architecture.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) What is Django Template System ? Explain any two basic template tags.
  - (2) What is Django ? Write advantages of using Django framework.
- (d) Write short note : (any 1 out of 2) 5
- (1) Explain Client-server Request and Response concept with example.
  - (2) Write in detail about `__init__.py` and `settings.py` in Django project.

### Question - 3 (Unit - 3)

- 3 (a) Answer in one word or one line : 4
- (1) `__str__()`
  - (2) `render()`
  - (3) `get_list_or_404()`
  - (4) `filter()`
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Write purpose of using 'makemigrations' command.
  - (2) List only Django model data types.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write steps to configure MySQL Database in Django.
  - (2) How to define Primary Key and Foreign Key in Model.
- (d) Write short note : (any 1 out of 2) 5
- (1) Explain method of `OneToOneField()` and `ManyToManyField()` of model class.
  - (2) What is Model ? Write step to migrate database.

### Question - 4 (Unit - 4)

- 4 (a) Answer in one word or one line : 4
- (1) `createsuperuser`
  - (2) `form.is_valid()`
  - (3) `HttpResponseRedirect()`
  - (4) `admin.site.register()`
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is the use of `list_display` and `list_filter` in Django Admin Panel.
  - (2) Write short note on Python dictionary type.
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Write steps of create Django Model Forms.
  - (2) Write short note on Form validation.

- (d) Write short note : (any 1 out of 2) **5**
- (1) How to activate, use, and customize Django's admin interface.
  - (2) Explain `HttpRequest.GET` and `HttpRequest.POST` methods.

### **Question - 5 (Unit - 5)**

- 5** (a) Answer in one word or one line : **4**
- (1) pip
  - (2) virtualenv
  - (3) GitHub
  - (4) UnitTest
- (b) Answer in brief : (any 1 out of 2) **2**
- (1) How to set up Cache in memory ?
  - (2) Explain `get_expiry_age()` and `get_expiry_date()` methods.
- (c) Answer in detail : (any 1 out of 2) **3**
- (1) Write short note on unittest2.
  - (2) Write steps to deploy Django application on GitHub.
- (d) Write short note : (any 1 out of 2) **5**
- (1) How to manage cookies and session in Django ? Explain with example.
  - (2) What are automated tests ? Why you need to create tests.
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