



PBB-003-1083002 Seat No. _____

**M. Sc. (IT & CA) (W.E.F. 2016) (Sem. III) (CBCS)
Examination**

November / December - 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.

- 1 (a) Fill in the blanks : 4
- (1) Full form of IDLE is _____
 - (2) _____ is the output of print (type(number)) if number = 100
 - (3) _____ is the output of print (list1[3:4]) if list1=[2,4,5,6,8,9]
 - (4) A _____ is a sequence of immutable Python objects.
- (b) Answer in brief : (any **one** out of two) 2
- (1) Explain Dictionary data type with example.
 - (2) Explain Python membership operators.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Write strength and weakness of Python?
 - (2) List and write in brief about data types of Python.
- (d) Write short notes : (any **one** out of two) 5
- (1) Explain eval() and exec() built in functions of python with example.
 - (2) How to define function in python? Explain with example.

- 2 (a) Write the use of following commands : 4
- (1) python manage.py startproject
 - (2) python manage.py dumpdata
 - (3) python manage.py migrate
 - (4) python manage.py runserver 8080
- (b) Answer in brief : (any **one** out of two) 2
- (1) List Django project structure.
 - (2) Write the use of manage.py and setting.py file in Django.
- (c) Answer in detail : (any **one** out of two) 3
- (1) What is Django Template System? Explain any two basic template tags.
 - (2) What is Web Application? Explain Django Apps Life Cycle.
- (d) Write short notes : (any **one** out of two) 5
- (1) Explain HTTP request and response concept with example.
 - (2) What is Django? Explain MVC frame work in detail.
- 3 (a) Answer in one word / line : 4
- (1) render()
 - (2) model.AutoField()
 - (3) __str__()
 - (4) python manage.py makemigrations
- (b) Answer in brief : (any **one** out of two) 2
- (1) Write only list of Django model data types.
 - (2) What is use of filter() ? Explain it
- (c) Answer in detail : (any **one** out of two) 3
- (1) What is Model? Write steps to migrate database in Django.
 - (2) How to define Primary key and Foreign key in Model ?

- (d) Write short notes : (any **one** out of two) 5
- (1) Write steps to configure MySql Database in Django.
 - (2) Explain OneToOneField() and ManyToManyField () of Django model class.
- 4 (a) Answer one word/line : 4
- (1) form.is__valid()
 - (2) admin.site.register()
 - (3) python manage.py createsuperuser
 - (4) HttpRequest. method
- (b) Answer in brief : (any **one** out of two) 2
- (1) How to create Django model forms?
 - (2) How to request web page via URL? Explain with example.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Explain HttpRequest.GET and HttpRequest.POST methods.
 - (2) Write short note on Form validation in Django.
- (d) Write short note : (any **one** out of two) 5
- (1) What is Model? Write steps to create model in Django.
 - (2) How to activate, use and customize Django's admin interface.
- 5 (a) Answer in one word / line : 4
- (1) GitHub
 - (2) UnitTest
 - (3) clear_expired()
 - (4) Python manage.py test
- (b) Answer in brief : (any **one** out of two) 2
- (1) How to setting up Cache in Memory?
 - (2) Explain get_expiry_date() and get_expiry_age() methods

- (c) Answer in detail : (any **one** out of two) **3**
- (1) Write short note on unittest2.
 - (2) Write steps to deploy Django application on GitHub.
- (d) Write short note : (any **one** out of two) **5**
- (1) What is an automated test? Why you need to create tests ?
 - (2) How to manage cookies and sessions in Django?
Explain with example.
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