HDF-003-1083002   Seat No. _____

M. Sc. (I.T.) (Sem. III) (CBCS) Examination

November / December – 2017

CS-14 : Web Application Development using Django

Faculty Code : 003
Subject Code : 1083002

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (a)   Objective type questions :   **4**

   (1)   What is the output of the following?
         print("Hello {name1} and {name2}".format(name1 = 'foo', name2 = 'bin'))

   (2)   What is the output of print tinytuple * 2 if tinytuple = (123, 'john')?

   (3)   Which function of dictionary gets all the keys from the dictionary?

   (4)   What is the output of this expression, 3*1**3?

   (b)   Answer in brief : (any **one**)   **2**

   (1)   Explain format( ) method.

   (2)   Write a short note on python dictionary.

   (c)   Answer in detail : (any **one**)   **3**

   (1)   Explain Strengths and Weaknesses of python.

   (2)   Write a short note on user defined function.

   (d)   Write a note on : (any **one**)   **5**

   (1)   What is set operations? Explain set in detail.

   (2)   Explain list in detail with any two built in functions.

2   (a)   Objective type questions :   **4**

   (1)   What is the syntax for defining variable a in template?

   (2)   How to create new project in django?

   (3)   The Context class, which lives in the _____ module.

   (4)   What is_init_.py file?

(b) Answer in brief : (any **one**) **2**

    (1) Write a short note on template filter.

    (2) Explain URLconfs and Loose Coupling

(c) Answer in detail : (any **one**) **3**

    (1) What is MVC framework? explain in detail.

    (2) Explain following :

        (a) Locals( )

        (b) render-to-response( )

        (c) {% extends %} tag

(d) Write a note on : (any **one**) **5**

    (1) What is HTTP? Explain HTTP request and response in detail.

    (2) Explain how django processes a request.

3 (a) Objective type questions : **4**

    (1) A Django _____ .py file is a description of the data in your database, represented as Python code.

    (2) Each model generally corresponds to a single database true or false?

    (3) Which method is used to insert new record ?

    (4) Write a syntax for display all student name in descending order of student table.

(b) Answer in brief : (any **one**) **2**

    (1) What is sqlmigrate in django? explain

    (2) Write a short note on MTV development pattern.

(c) Answer in detail : (any **one**) **3**

    (1) What is Model? Explain in detail.

    (2) What is the use of filter()? Explain in detail.

(d) Write a note on : (any **one**)   **5**

    (1) Write a short note on database configuration.

    (2) Explain following:

        (a) CharField

        (b) ManyToManyField

        (c) _str_( )

        (d) Get( )

        (e) Order_by( )

4 (a) Objective type questions :   **4**

    (1) Which command is used to create a new admin user?

    (2) _____ method on that object that renders the form as a sequence of table row

    (3) Which method is used to check the form is valid or not?

    (4) We can use include( ) in django.conf.urls yes or no?

(b) Answer in brief : (any **one**)   **2**

    (1) Write a short note on admin interface.

    (2) What is the use of form in django?

(c) Answer in detail : (any **one**)   **3**

    (1) Explain following :

        (a) Form.is_valid( )

        (b) Form.as_table

    (2) Explain how to capture text in URLs.

(d) Write a note on : (any **one**)   **5**

    (1) Explain form validation in detail.

    (2) How GET and POST method is used in Django?

5 (a) Objective type questions :   **4**

    (1) A _____ is a small piece of information that browsers store on behalf of Web servers.

    (2) Which method is used to write a cookie?

    (3) List any two options passed in set_cookie method?

    (4) What is SESSION_COOKIE_DOMAIN?

(b) Answer in brief : (any **one**)   **2**

   (1) Write steps to enabling a session.

   (2) Write a short note on python's unittest2.

(c) Answer in detail : (any **one**)   **3**

   (1) Write a short note on Django testing.

   (2) Write a short note on Persistent Sessions.

(d) Write a note on : (any **one**)   **5**

   (1) What is cookie? Write a short note on getting and
       setting cookies.

   (2) Write a short note on Django's session framework.

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