

BT-8/J-22

48253

WEB AND INTERNET TECHNOLOGY

Paper–OE–CS–410

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt any **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT–I

1. (a) Identify the design paradigms which are involved in organized Websites and Intranets. 8
- (b) How to determine that a website needs a search system? Also discuss the anatomy of search system. 7
2. (a) Discuss various types of navigation systems. What are the ways by which the elegant navigation systems can be designed? 8
- (b) What do you mean by cohesive organization systems? How to create cohesive organization systems? 7

UNIT–II

3. (a) Describe the Cascading Style Sheet (CSS) with an example use the font attributes and text attributes in the example. 5
- (b) Explain the concept of session storage object in HTML5? How to create and access? 5

- (c) Write a HTML program to print a paragraph with 4 sentences. Each sentence should made of different font. 5

4. (a) Write a program in HTML5 for the following : 10

(i) New input type attribute.

(ii) Canvas Element.

(iii) Add video and audio.

(b) How frames and layer are used in HTML? Explain them using suitable examples of HTML script. 5

UNIT-III

5. (a) Is Python a procedure oriented language or object oriented language or both? Justify your answer. 8

(b) Write a program in Python to implement the concepts of pass by reference and pass by value. 7

6. (a) Write a Python program for the following : 8

(i) To create a dictionary using tuples.

(ii) To convert a string to a long.

(b) Write a Python program for the following :

(i) To define Built-In Class Attributes.

(ii) To define Global vs. Local variables.

UNIT-IV

7. (a) What are meta classes in Python? Explain with the help of an appropriate Python program. 8

- (b) (i) Is the following Python code valid? Explain and Justify.

7

```
.try :
```

```
    #Do something
```

```
except :
```

```
    #Do something
```

```
else :
```

```
    #Do something
```

- (ii) Can one block of except statements handle multiple exception?

8. With the help of suitable Python program explain the concepts of abstract data types, and information hiding and encapsulation.

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