BT-4/M-22   **44218**

INTERNET & WEB TECHNOLOGY

Paper – PC-CS-AIDS-208A/ES-SC-SYS-208A/
PC-SC-A-ML-208-A

Time : Three Hours]   [Maximum Marks : 75

Note : Students will be required to attempt *five* questions in all selecting at least *one* question from each Unit-I to Unit-IV. All questions carry equal marks.

UNIT–I

1. (a) Discuss the role of information architect in web engineering. Discuss organizational challenges for managing organizational information.

   (b) What are the different types of navigation systems and its integrated elements? How do you design an elegant navigation system?   (8+7=15)

2. (a) Elaborate the steps for designing search interface for searching your web site. How do you search group content?

   (b) Draw a neat sketch and explore the components of high level architecture blueprint.   (8+7=15)

UNIT–II

3. (a) How is XHTML better than HTML? Why would you want to use XHTML? How to create table and design forms?

   (b) What do you understand by HTML tags? How many tags are required to create a web page in HTML5?

   (8+7=15)

4. (a) What is Box model in Cascading Style Sheet (CSS)? Discuss the limitations and advantages of CSS. Explain different types of selectors in CSS.

   (b) Discuss CSS font properties, alignment of text and conflict resolution. (8+7=15)

UNIT–III

5. (a) Explain the difference between :
   (i)   Undefined and not defined in JavaScript.
   (ii) The await keyword and the yield keyword.

   (b) What do you understand by host objects and native objects? How objects are created and modified?

   (8+7=15)

6. (a) What is regular expression in JavaScript and how it can be used for pattern? Explain with suitable example.

   (b) What is meant by control statements? Discuss different kind of loops with suitable illustration. (8+7=15)

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UNIT–IV

7. (a) Why do we use slicing in strings? State any eight built in functions on Strings in Python.

   (b) Give a comparison between lists, tuples, dictionaries and sets. (8+7=15)

8. (a) Discuss int(), float(), str(), float() and complex() type conversion functions with examples.

   (b) What do you mean by an operand and an operator? Illustrate your answer with relevant example. (8+7=15)