

M.Sc. - I (Computer Science) (NEP Pattern) Semester-I  
**NEP-21 / 01MSCCS01 - Paper-I - Scripting Languages and Information Retrieval**

P. Pages : 2

Time : Three Hours



**GUG/S/25/15078**

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram wherever necessary.
  3. Avoid vague answers and write the answers specific to questions only.

**Either:**

1. a) What is style sheet? Explain in detail by giving suitable example. 8
- b) Demonstrate the following- 8
  - i) Navigation Bar
  - ii) Attribute Sector

**OR**

- c) Explain in detail the basic structure of HTML. 8
- d) Write a HTML code to demonstrate the insertion of audio and video. 8

**Either:**

2. a) How can we effectively test the interactivity of a web page to ensure a smooth user experience? 8
- b) Write a Java Script for demonstrating Animating Graphics. 8

**OR**

- c) How can we create dynamic web pages using JavaScript? Explain. 8
- d) Write a JavaScript Program to explain image map navigation. 8

**Either:**

3. a) Write about evolution and features of VBScript. 8
- b) Write a program in VBScript for entering an array of 'n' elements. Print the sum and each odd element from it. 8

**OR**

- c) What is operator? Explain operators available in VBScript. 8
- d) Write and explain any four string manipulation function of VBScript. 8

**Either:**

- |           |    |  |          |
|-----------|----|--|----------|
| <b>4.</b> | a) | Explain the concept of Relevance feedback and Query Expansion in detail. | <b>8</b> |
|           | b) | What is vector space model? Explain in detail.                           | <b>8</b> |

**OR**

- |           |     |  |          |
|-----------|-----|--|----------|
|           | c)  | Write a note on-                                       | <b>8</b> |
|           | i)  | Index compression                                      |          |
|           | ii) | Index construction                                     |          |
|           | d)  | Explain in detail Probabilistic Information Retrieval. | <b>8</b> |
| <b>5.</b> |     | Attempt all questions.                                 |          |
|           | a)  | Write a short note on <Meta> tag.                      | <b>4</b> |
|           | b)  | How to create scrolling message using JavaScript?      | <b>4</b> |
|           | c)  | Write a short note on regular expression.              | <b>4</b> |
|           | d)  | Explain in short XML Retrieval.                        | <b>4</b> |

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