MCA   (Sem.–5)
WEB TECHNOLOGIES
Subject Code : MCA-503
M.Code : 74383
Date of Examination : 16-12-2022

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**

SECTION-A

l.   Write an elaborate note on XKMS and guidelines for signing XML documents.

2.   Write short notes on :

     (a) XSLT with an example.

     (b) XQuery with an example.

SECTION-B

3.   Clearly state with an example how Jquery can be used for

     (a) Retrieving the content of a webpage

     (b) Manipulating the content of a webpage.

4.   How Jquery is different from Javascript. Explain a scenario where jquery should be used instead of Javascript.

SECTION-C

5.   Write a webpage in PHP to explain the usage of for loop?

6.   Describe PHP session in detail. Explain with an example.

SECTION-D

7. Discuss with some real-world examples what the usage of web service is.

8. What are the types, usage and benefits of the Content Management System?

SECTION-E

9. (a) Write a ConsoleProgram that reads in a number from the user and then displays the Hailstone sequence for that number (Pick some positive integer and call it n. If n is even, divide it by two. If n is odd, multiply it by three and add one. Continue this process until n is equal to one).

   (b) Write a session tracker that tracks the number of accesses and last access data of a particular web page.

   (c) Explain the Directive and Scripting elements of JSP.

   (d) Write a Java script to verify a phone number, email-id and date formats.

   (e) What is XML DOM?

   (f) What is Apache? Explain the architecture of Apache server.

   (g) Explain the steps involved in connecting database in PHP.

   (h) How can you incorporate Java Script into an HTML page?

   (i) Write a short note on cookies.

   (j) How HTTP5 is more secure?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.