

## School of Computer Science and Engineering

## Fall Semester 2023-24

## Continuous Assessment Test - I1

SLOT C1+TC1

Programme Name &Branch: M.Tech. (Integrated), MIC & MID

Course Name & code: Advances in Web Technologies, MDI3001

Class Number (s): 0104218, 0104217

Faculty Name (s): Dr.Mukku Nisanth Kartheek, Dr.V.Arulkumar

Exam Duration: 90 Min. Maximum Marks: 50

| Q. No. | Question   |
|--------|--|
| 1.     | a) Design and draw a hierarchy for an XML Schema for movies, each movie should include             |
|        | the title, actors, directors, duration, certificate and rating.                                    |
|        | b) For each element in the hierarchy decide on the element type and relationship.                  |
|        | c) Write a DTD file to define the above data type and schema.                                      |
|        | d) Implement a few instances of the XML above schema.  |
|        | (10 Marks)   |
| 2.     | Design a webpage for playing a snake game using HTML, CSS, JavaScript and jQuery.                  |
|        | In the game of Snake, the player uses the arrow keys to move a "snake" around the board. As        |
|        | the snake finds food, it eats the food, and thereby grows larger. The game ends when the snake     |
|        | either moves off the screen or moves into itself. The goal is to make the snake as large as        |
|        | possible before that happens. (10 Marks)   |
| 3.     | a) Can a static website serve as a web application and is Google a website or a web                |
| ] 3.   | application. Justify your answer. (5 Marks)  |
|        | b) Is artificial intelligence useful in Web application(s)? Explain. (5 Marks)                     |
| 4.     | How can you design your website to be a responsive website viewable on multiple devices            |
| ٦.     | and screen resolutions? Explain with an example, how you can display different images for          |
|        | different devices. (10 Marks)  |
| 5.     | You are asked to develop a web application that displays the statistics for various cricketers.    |
| ٥.     | Create a JSON file for storing cricketer's data that includes name, age, state, teams and          |
|        |  |
|        | country etc. Use AJAX to asynchronously load the JSON data and dynamically update the DOM based on |
|        | Use AJAA to asylicinollously load the JSON data and dynamically update the Down based of           |
|        | user interactions. Additionally, incorporate a visually appealing design to present the            |
|        | cricketer's statistics. (10 Marks)   |