**Internal Assignment**

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| **SESSION** | **APRIL 2025** |
| **PROGRAM** | **Bachelor of Computer Applications (BCA)** |
| **SEMESTER** | **I** |
| **course CODE & NAME** | **DCA1109 – Introduction to Web Programming** |
| **CREDITS**  | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02****30 marks for each** |

***Please read the below instructions carefully before proceeding further:***

* Learners are instructed to download the IA Question Paper, prepare the answers (Soft Copy), and submit them through Learning Management System (LMS) Portal
* **The last IA assignment submission date (Set-1 & Set-2 in a single file) is reflected in LMS only. This is the last date, and no further extension will be considered.**
* **Assignment submissions are accepted only in .pdf format.**
* Assignments must be **typed** and **formatted** as per the following specifications:
	+ Page Margin – 1 inch on all sides
	+ Page Orientation – Portrait
	+ Page Size – A4
	+ Font Family - Times New Roman
	+ Font size - 12
	+ Alignment - Justified.
* The total page limit shall not exceed 12 pages.
* **Answers for 10-mark questions should be approximately 400-500 words and not more than 200-250 words for 5-mark questions.**
* The average of both assignments’ marks scored by the learner will be considered Internal Assessment Marks.
* Only ONE submission is allowed per assignment.
* Please restrict the assignment document size to <2 MB. Avoid inserting images of very high resolution into the document to remain within the size limit. The assignment response document should NOT contain color images or highlighting of text content.
* Upon successfully submitting IA in LMS, learners can verify the document submitted against each course using the preview tab. If the file submitted has been corrupted or the wrong document submitted, it will not be considered for evaluation.
* If the learner resubmits the assignment, it is permissible only on or before the cut-off date, and the last submission will be considered for evaluation purposes.
* **Content that has been directly copied from the Internet/SLM and Assignments that have been copied and shared among students will be automatically rejected and disqualified.**

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| **Set-I** |
| **Q. No** | **Questions** | **Marks** | **Total Marks** |
| **1.** | What are the key characteristics, applications, and different versions of HTML? Explain the syntax structure of an HTML document, focusing on the head and body sections. Additionally, discuss how HTML has evolved over time to support modern web development needs, including its role in mobile and responsive design. | **3+4+3**  | **10** |
| **2.** | What is CSS, and how can basic styles be defined and integrated into an HTML document using inline, internal, and external methods? Further, explain the impact of CSS on website layout, design consistency, and responsiveness. How do CSS classes, IDs, and selectors contribute to efficient styling, and what are some common challenges and solutions in applying CSS? | **3+3+4**  | **10** |
| **3.** | How are tables created and applied in HTML to organize and display data effectively? Describe the different types of lists and text formatting tags, and elaborate on how they enhance content presentation and user experience. Also, include best practices for accessibility and semantic usage when designing content with tables and lists. | **4+3+3** | **10** |
| **Set-II** |
| **Q. No** | **Questions** | **Marks** | **Total Marks** |
| **4.** | Describe the structure of HTML forms, highlighting key form elements, input types, and important form attributes. How do these components contribute to interactive web applications? Also, discuss methods to validate form data, improve user experience, and enhance accessibility in form design. | **3+2+5**  | **10** |
| **5.** | How can text be inserted and aligned in HTML? Discuss the various tags and attributes used for text alignment and formatting. Additionally, explain how images and hyperlinks are embedded into a web page, including best practices for optimizing images and ensuring links are accessible and SEO-friendly. | **3+3+4**  | **10** |
| **6.** | What are the fundamental syntax rules, common data types, and operators in JavaScript? In addition, explain how JSON (JavaScript Object Notation) is used to represent data structures. How can JSON data be parsed and stringified in JavaScript, and what are its typical use cases in modern web applications such as APIs and client-server communication? | **3+3+4** | **10** |