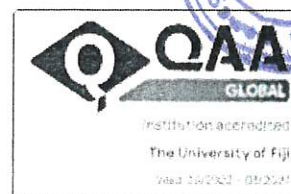




The University of Fiji
(An Entity of Arya Pratinidhi Sabha of Fiji)



SCHOOL OF SCIENCE AND TECHNOLOGY
Semester 1, 2024

FINAL EXAMINATION PAPER

ITC314: WEB DESIGN AND PROGRAMMING

Important Instructions to Students:

1. Read the questions, and instructions carefully and answer the questions.
2. You are allowed an **extra 10 minutes reading time** (during this time, you are not allowed to write with a pen) and **180 minutes (3 Hours) to complete this paper**.
3. Silent, non-programmable calculators are allowed, but not supplied.
4. Write all your answers in the answer booklet provided. If you need extra sheets, please ask the supervisor. Write your name, course code, and student identification number in the answer booklet and the attendance sheet.
5. **This Final Course Examination Paper is worth 100 marks and contributes 50% of the total course assessments.** Students must **at least score 40%** in this final exam to pass the course.
6. This paper contains one (1) section A. All questions are compulsory to answer.
7. Write all your answers legibly. The marker has the right to award a zero for answers that are not legible.
8. This is a **Closed Book Examination**. The University views plagiarism, cheating, and dishonest practice as serious offenses and if found, offenders are penalized.

Examination Paper Content (Format):

<u>Section</u>	<u>Question</u>	<u>Content</u>	<u>Marks</u>	<u>Suggested Time</u>
A	1-50	Short Answer Questions	100	180 minutes
		TOTAL	100	180 Minutes

All questions within this section are compulsory. Each question is worth 2 marks.

1. What is the primary function of a DNS server?
2. Expand the abbreviation "HTML DOM" and describe its significance in web development.
3. Explain the importance of understanding search engine functionality in website management and promotion.
4. Define SEO and discuss its role in enhancing online visibility.
5. Describe a reliable approach to ensure your website's visibility on Google's search results without relying on paid promotion.
6. What is the difference in usage and text between a class selector and an ID selector in HTML and CSS?
7. What benefits does using version control software like Git have over other, simpler forms of file storage? What are the drawbacks of using Git?
8. What is the difference between Git and GitHub?
9. Why is code indenting, or white space, important in HTML?
10. What are the attributes of HTML tags?
11. Why is it important to have text-based navigation on all of your web pages?
12. Where is the best place to find images to use on your website?
13. What does the <iframe> tag set do?
14. Why would website owners want to create a web form to gather data from the website users instead of just using an "email us" link?
15. Why is pre-validation of form input elements necessary?
16. Why is navigation near the top of the list of priorities for mobile-first design?
17. How do you choose the breakpoints for testing with a mobile-first design?
18. What is a sibling element in HTML?
19. What does adding the "display:flex;" style do to an HTML element?
20. What does a meta tag add to an HTML page?
21. What is the difference between client-side and server-side code?
22. Why is it important to write simple code?
23. What does the keyword represent in JavaScript?

24. What are variables used for in JavaScript?
25. Why is the use of `eval()` discouraged in JavaScript?
26. What is a JavaScript library?
27. Why is jQuery still so widely used after almost two decades?
28. What does a CDN, or content delivery network, do?
29. Why do full-stack web developers use the compressed build of a JavaScript library after a website is launched?
30. When does the `document.ready()` JavaScript event occur?
31. What is a software plug-in?
32. What is a single-page application?
33. What is the difference between JavaScript and TypeScript?
34. What is an Angular module() function used for?
35. What is the `$scope` object used for in the Angular framework?
36. Why do both beginning and seasoned web developers prefer using a CMS to create websites?
37. What is the difference between a WordPress theme and a WordPress plug-in?
38. Why is user management an important part of WordPress?
39. What is metadata in the context of a CMS webpage?
40. Why do WordPress plug-ins install their own menus on the WordPress dashboard?
41. What is the most common type of website hacking?
42. Which of the following is NOT a valid component of a security plan?
43. Why is security so important when using WordPress as a CMS?
44. What is an automated security audit?
45. What is a common mistake made when trying to apply custom CSS to a WordPress website using the visual editor?
46. What is the document root in PHP?
47. How do you find bugs in PHP code?
48. If the array `$arr1` contains the following data: ("eenie", "meenie", "mienie"), what would the code `$arr1[2]` display?

49. What is a code statement in PHP?

50. What are private properties used for in a class?

THE END