

SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY /APPLIED COMPUTER SCIENCE FIRST SEMESTER, 2023/2024

FIRST SEMESTER, 2023/2024 (AUGUST-DECEMBER, 2023)

BIT 202/ACMP 225: WEB PROGRAMMING 1

STREAM: Y2 S1 TIME: 2 HOURS

DAY: MONDAY, 12:00-02:00 PM DATE: 20/11/2023

INSTRUCTIONS

1. Do not write anything on this question paper.

2. Answer Question ONE [Compulsory] and any other TWO Questions.

Question One

- a. Describe any four different techniques in HTML that can be used to create multicolumn layouts (10 marks)
- a. Explain what you understand by a Responsive Web Design (5 marks)
- b. Show how margins are used to create space around elements, outside of any defined borders in CSS (10 marks)
- c. Create an iframe with a URL address that goes to https://www.whome.com (5 marks)
- d. Show how JavaScript can change styles of an html document (5 marks

Question Two

- a) How is a cookie represented in an HTTP request and an HTTP response? (5 marks)
- b) Where is the Meta tag only found and what is its purpose? (5 marks)
- c) Discuss how to create an XML document for storing information about groceries, that includes name, price, and quantity on hand, and the name of its gif image. Include a typical example of the XML file. (5 marks)
- d) Create a function in JavaScript that enables a system to determine the current date and time. (5 marks)

Question Three

- a. Describe with an example how Inline HTML iframes are created (10 marks)
- b. Write JavaScript code to show examples of a global variable and a local variable (5 marks)
- c. Write a for loop in JavaScript which counts numbers between 1 and 10 (5 marks)

Question Four

- a. Explain the JavaScript object model. Your answer shall explain prototypes, properties, functions and constructors. (10 marks)
- b. Thoroughly explain the purpose of writing an XML schema? (5 marks)
- c. Explain how HTTP sessions are implemented in PHP. (5 marks)

Question Five

- a. Use an example to show how the background color of a page is set using CSS (5 marks)
- b. Describe the Document Object Model, DOM of an HTML document.
 - (10 marks)
- c. Show the correct JavaScript syntax that changes content of a HTML element (5 marks)