



MURANG'A UNIVERSITY COLLEGE

University Examinations 2015/2016

**THIRD YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

BIT 2207: INTERNET APPLICATION PROGRAMMING

COURSE: B.Sc. IT

TIME: 2HRS

TIME: 8:30AM

DATE: 27/06/15

Instructions: Answer Question 1 and Any Other Two.

Question 1: (30 Marks)

- (a) Compare and contrast Javascript and Java programming languages (6 marks)
- (b) Explain the attribute of SCRIPT tag (4 marks)
- (c) Write a simple javascript program to display the message "Welcome to Java Programming" in a single line. Explain each of the statements (6 marks)
- (d) Write a code in PHP that will give an output on the screen, "Hello World" when executed. (6 marks)
- (e) Write a javascript program to grade student marks for a single subject, using a
 - (i) if..else structure (4 marks)
 - (ii) switch structure (4 marks)

Use the following grading system

| Marks | Grade |
|----------------|-----------|
| 0..39 | F |
| 40..49 | D |
| 50..59 | C |
| 60..69 | B |
| 70..100 | A |
| Any other mark | Not Valid |

Question 2: (20 Marks)

- (a) Write a javascript program that accepts two numbers (integers), calculates their sum, and displays that sum. (10 marks)
- (b) PHP is “a weakly typed language”. Explain what this statement means as regards php variables (4 marks)
- (c) Describe three arrays that can be used in PHP. (6 marks)

Question 3: (20 Marks)

- (a) (i) Write a javascript using a *while loop* that display the first ten positive integers in ascending order. (5 marks)
- (ii) Rewrite the above (i) using a *for loop* (5 marks)
- (b) Explain the main data types used in javascript, and use an example to declare a variable in each case (10 marks)

Question 4: (20 Marks)

- (a) Describe the functions of each of the following symbols as used in PHP code for a web page.
 - (i) <?
 - (ii) ?>
 - (iii) <%
 - (iv) %>
 - (v) \$myvar(5 marks)
- (b) Describe the characteristics of PHP-MySQL, that make it frequently used in creating web pages. (5 marks)
- (c) (i) Write a function in javascript that calculate the Area of a rectangle (5 marks)
- (ii) Write a program that accepts the length and the width and then calls the above function to calculate and displays the area. (5 marks)