

**UNIVERSITY EXAMINATIONS****FIRST YEAR EXAMINATION FOR THE AWARD OF
DIPLOMA IN COMPUTER SCIENCE****COSC 0141: INTRODUCTION TO WEB BASED PROGRAMMING****STREAMS: DIP. COMP SCI Y1S2****TIME: 2 HOURS****DAY/DATE: TUESDAY 14/04/2020****8.30 AM – 10.30 AM****INSTRUCTIONS:**

- Answer question **ONE** and any other **TWO** questions in section B
- Do not write anything on the question paper
- This is a **closed book exam**, no reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.

SECTION A (Answer ALL Questions)**Question One (30 Marks)**

- Differentiate between a client and a server as used in web-based programming (4 Marks)
- Name FIVE JavaScript Operators (5 Marks)
- List FIVE types of database management systems (5 Marks)
- Give the difference between a variable and a constant (2 Marks)
- Write down a Simple Active Server Page Displays the Date and Time (5 Marks)
- How would you use JavaScript to handle user input errors in a web form? (5 Marks)
- List FOUR security challenges faced in web programming (4 Marks)

SECTION B (Answer ANY TWO Questions)**Question Two (20 Marks)**

- Illustrate a page with HTML, External CSS and internal JavaScript (12 Marks)
- Describe the words ASP and ODBC and explain how each one works (8 Marks)

Question Three (20 Marks)

- a) The internet has been a blessing to web-based developers. How can we extend its services to other industries? (10 Marks)
- b) State and Explain **FIVE** internet protocols (10 Marks)

Question Four (20 Marks)

- a) Give **FOUR** advantages of client server computing (8 Marks)
- b) Explain the steps involved in purchasing a domain name, setting a web hosting server on a Linux cloud environment (12 marks)

Question Five (20 Marks)

- a) Write down the syntax of a PHP loop (5 Marks)
- b) Illustrate a MySQL delete statement (5 Marks)
- c) Declare two JavaScript variables, add them and return their values in a JavaScript function (5 Marks)
- d) Write the syntax of PHP switch case statement (5 Marks)

.....