



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT 12J)

ICS 2201: OBJECT ORIENTED PROGRAMMING II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions.

Attempt question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One (Compulsory)

- a) Describe **THREE** types of java variables **(3 marks)**
- b) Outline **THREE** steps for creating an object **(3 marks)**
- c) Distinguish between primitive data types and references data types **(3 marks)**
- d) Using the util scanner class, write a program that prompts the user for his name and prints the results **(5 marks)**
- e) Using the JophonPane class of the Javax, swing library, write a program that prompts the user for length and a width and calculates area. **(5 marks)**

- f) Using JOptionPane class of a Javax, swing, library write a java program to determine positive and negative numbers. **(5 marks)**
- g) Provide the code that makes the text box to read the statement “Mombasa Raha” when the button is clicked. **(6 marks)**

Question Two

Using the JOptionPane class of the Javax.swing.Library, write a java program that grades students as follows **(20 marks)**

- (i) If marks ≤ 70 and marks ≥ 100 display Grade = “A”
- (ii) If marks ≤ 60 and marks ≤ 69 display Grade = “B”
- (iii) If marks ≤ 50 and marks < 59 display Grade = “C”
- (iv) If marks ≤ 40 and marks ≤ 49 display Grade = “D”
- (v) If marks < 40 display = FAIL

Question Three

- a) Illustrate with code how selected item Japan can be displayed in the text field. **(5 marks)**
- b) Provide the code that makes the Add button to add a selected language into the text. **(5 marks)**
- c) Write the code that can be used to select a payment method and display a message output when the complete payment now tab is clicked. **(10 marks)**

Question Four

- a) Provide the code stub of the JavaSave menu option **(10 marks)**
- b) Provide the code stub of the java open menu option **(10 marks)**

Question Five

- a) Give the database connection string in Java Net Beans **(4 marks)**
- b) Describe THREE types of result set in Java database **(6 marks)**
- c) Provide the code for selecting a database table and displaying the results. **(5 marks)**
- b) Write the code for connecting Java forms to database in Java Net Beans **(5 marks)**