

UNIVERSITY EXAMINATIONS 2016/2017 ORDINARY EXAMINATION FOR BSC ACTUARIAL SCIENCE **CAU2205 INFORMATION MANAGEMENT FOR ACTUARIES**

(EVENING &WEEKEND)

DATE: APRIL, 2017 **TIME: 2 HOURS**

INSTRUCTIONS: Answer question **ONE** and Any other **TWO** questions

QUESTION ONE (30 MARKS)

a) Discuss the following types of programming languages:

i) Machine Language

ii)Assembly Language	(3 Marks)
iii) High level Language	(3 Marks)

(3 Marks)

(2 Marks)

b) Discuss the use of the following objects

i)Menu bar

1)1/10Hd Odl	(2 1/14/11/5)
ii)The Toolbar	(2 Marks)
iii)The Form	(2 Marks)
iv)The Form Layout window	(2 Marks)

c) Spear Ltd company pays its employees as follows;

basic pay

number of days worked X rate of pay

Allowances

Transport allowance 1% of basic salary

House allowance 2% of basic salary

Deductions

NSSF 2.5 % OF gross pay

PAYE 3% of gross pay (for workers earning gross pay in

excess of 10,164)

Required

Draw a flow chart to compute the pay

(8 Marks)

d) Explain the following characteristics of a good programming language

ABSTRACTIONandEFFICIENCY

(5 Marks)

QUESTION TWO

a) Using suitable examples Outline what the following functions perform when used in a visual basic program

i.	UCase(variable)	(2 Marks)
ii.	LCase(variable)	(2 Marks)
iii.	StrConv(variable, vbProperCase)	(2 Marks)
iv.	Left(variable,#)	(2 Marks)
v.	Right(variable,#)	(2 Marks)
vi.	Len(variable)	(2 Marks)

b) What will be the output of the following code when it is executed? (5 Marks)

Dim age As Integer = 42

Select Case age

Case Is $\geq = 0$

txtBox.Text = "Child"

Case Is ≥ 13

txtBox.Text = "Teenager"

Case Is ≥ 21

txtBox.Text = "Young Adult"

Case Is $\geq = 40$

txtBox.Text = "Middle Age"

Case Is \geq =65

txtBox.Text = "Old Person"

Case Else txtBox.Text = "Not Human" End Select

C) State the three types of Visual Basic operators are:

(3 Marks)

QUESTION THREE

a) Write a set of statement that will give the output in the table below.

(5 Marks)

Marks	grade
0-49	Fail
50-60	Pass
61-74	Merit
75-100	distinction

- b) Write a code which accepts names of 5 cities and add them to a combo Box. (5 Marks)
- c) State and explain three types are three types of translators.

(3 Marks)

d) Explain the stages followed in application program development when developing a new program. (7 Marks)

QUESTION FOUR

- a) State and explain **five** program **design aims** that a programmer will take into account when writing a program. (10 Marks)
- b) In a certain cafeteria, clients have to select their choice from three available options.

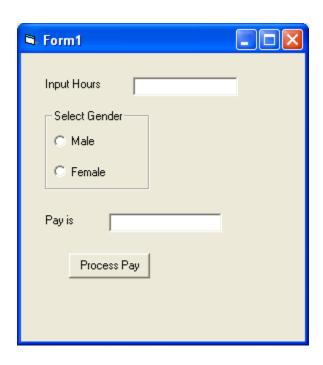
Write a program that would help to print out the client requirements. (10 Marks)



QUESTION FIVE

a) In XYZ Co. the average rate per hour is shs 100. However female workers are paid at two times the normal rate. Write a visual basic program that would help compute the pay.

(6 Marks)



b) Using suitable examples write simple code that will be executed by the following loops/repetitive statements

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