

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, BACHELOR OF SCIENCE IN MATHEMATICS & COMPUTER SCIENCE & BACHELOR OF SCIENCE IN MATHEMATICS & ECONOMICS

(MAIN CAMPUS)

CIT 112: INTRODUCTION TO COMPUTER APPLICATIONS

Date: 22nd July 2014

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

- Attempt question ONE (COMPULSORY) and any other TWO questions.
- · Use of mobile phone is prohibited in the examination room.

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MASENO UNIVERSITY

Question 1 (Compulsory, 30 Marks) Define the following spreadsheet tools: i)Home keys ii) solver (b) Distinguish between a workbook and a worksheet. State two ways in which the Currency number format differs from the Accounting format(2 marks) (c) State the output of the following functions: (d) =ROUNDDOWN(435273.7865,2) Explain when to use the following chart types:

(2 marks)

(2 marks)

(2 marks)

(6 marks)

(i) Pie chart

(ii) Line chart

(f)Evaluate the following expression: (5 + 2) * 2 ^ (3 - 1) = 28

(2 marks)

(g) Explain the role of the function button on MS Word 2007 window. (2 marks)

Distinguish between page break and section break in MS Word (h)

(2 marks)

(i) State the output of the following formula:

IF(NOT(AND(40<50,30>20)),"Pass,"Fail")

(2 marks)

(j) State four ways in which you can format a paragraph in MS Word 2007

(4 marks)

Use the worksheet below to answer questions 2 and 3

FORM II	EXAMINATIONS		DATE:				
CLASS	STUDENT NAME	MATHS	ENG	C/STUDIES	TOTAL	AVERAGE	GRADI
2A	ALI	67	74	71			
2B	MAINA	58	65	56			
2D	KUANA	45	69	70			
2C	SHIBE	45	50	49			
2C	TAUSI		56	70			
2B	SHAH	55	60	34			
2C	JAMAL	40	40	35			

Note: Pass mark is 40%

Question 2 (20 Marks)

- (a) The results were posted two days after. Write a formula to display the day. (2 mar
- (b) Write a function to determine the number of students who don't take MATHS in 2B stream. (3 marks)
- (c) Write function to determine the average for stream 2C in English for students with at least 40% in Math.
- (d) Write function to calculate the average for only students who passed in C/Studies from stream 2B.
 (3 marks)
- (e) Write function to count the number of students who have scored grade C and above in stream 2C.

 (3 marks)
- (f) State the function that determines the position taken by Shah in the class based on total score.

 (2 marks)
- (g) A function is used to remark "Pass" or "Fail" if a student Passes in either MATH and ENG or MATH and C/STUDIES. State the function that remarks for MAINA. (4 marks)

Question 3 (20 Marks)

(a)	Write function to determine the second worst student in ENG.	(2 marks)
(b)	Write function to determine the standard deviation for MATH.	(2 marks)
(c)	Explain the output of the following formula: =MEDIAN(D4:D10).	(3 marks)

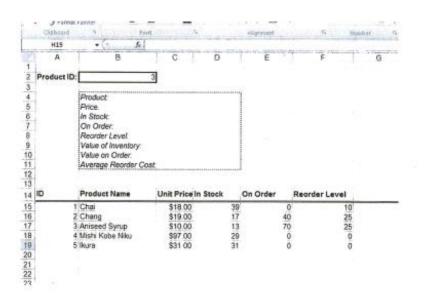
(d) Students are to be graded, using the Maseno University grading system, based on the average mark. Note: The function should not grade students who did not sit the exam, and if the mark less than 0 or greater than 100 it should display "Error". State the function for cell H6. (6 marks)

Mark	Grade
70-100	A
60-69	В
50-59	С
40-49	D
0-39	F

(e) As an IT manager of your company, you advised top management to be using the MS Excel 2007 Solver feature in making key decisions. One day the production manager sort to find out what combination of inputs would yield the optimum profits. However Excel reported that there is no solution available to the given constraints. However it's believed that a solution exists. Identify possible remedies to this situation. (7 marks)

Question 4 (20 Marks)

Use the spreadsheet below to answer parts (a) and (b)



(a) Using VLOOKUP function, state the function for cell:

i)C4

ii) C5

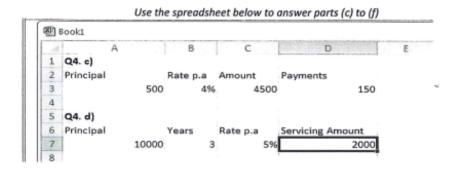
(2 Marks)

(b) Use the values obtained to calculate the value for cell

i)C9.

ii) C10

(2 marks)



(c) Write function to determine monthly contribution for terms stated inQ4 a) in the figure above.

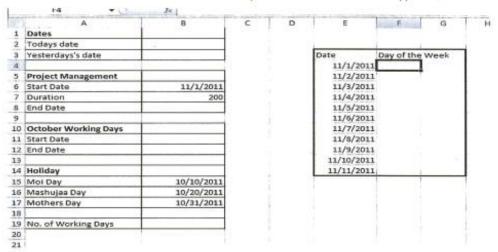
(2 marks)

- (d) Write a function to determine the amount owed to a bank after a loan repayment with reference to terms specified as Q4. d) above. (2 marks)
- (e) Briefly describe four proofing tools found in MS Word. (4 marks)

(f)In a step by step fashion, describe how a mail merge document is created for a letter to multiple recipients. (8 marks)

Question 5 (20 Marks)

Use the screenshot below to answer the questions in this section where applicable.



- (a) Write function to determine the number of working days in the month of October. (3 marks)
- (b) Write function to determine a projects end date given the information above. (2 marks)
- (c) Write function in cell F4 to determine the day of the week e.g. Monday, Tuesday etc. (6 marks)
- (d) Explain three limitations of the Scenario Manager feature as a decision support tool for the top management of an organization.
 (3 marks)
- (e) Describe the following charts and state what kind of information they are used to convey.

(6 marks)

- i). Columnar
- ii). Area
- iii). Scatter