

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2017/2018

SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

BIT 214: INTRODUCTION TO COMPUTER PROGRAMMING

Date: 15th February, 2018

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

Answer question ONE and any other THREE questions.

ISO 9001:2008 CERTIFIED



QUESTION ONE.	(COMPULSORY 25 MARKS)
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b) Explain any THREE selection control structure.

					17.					
a).	Exp	lain the	following to	erms as u	used in progra	mming			(4 mark	s)
	i.	Obje	ct code							
	ii.	Tran	slators							
b)	Exp	lain TH	REE advan	tages of	high level pro	ogrammi	ng languag	ges	~ . (6 marks	s)
c)	Mas	Maseno University savings society Pays 5% interest on shares exceeding 100,000 shillings and								
					nis target. Ho				100	
			SS bank acc						•	
	Requ	uired:	Design a	pseudo o	code for a prog	gram tha	t would:			
							9			
	i)	Prom	pt the user f	or share	s and deposit	of partic	ular memb	ers		
16.					1.0		1.			
	ii)	Calcu	late the inte	rest and	total savings		3.5		2.	
7										
	iii)	Displa	ly the intere	st and to	otal savings or	the scre	en for par	ticular men	bers of the	
		societ					4		*,	
		Societ	y.	63		EV.			(7mks)	
d)	Draw	a flowe	hart for the	abova n	seudo code.					
	Diaw	a nowe	·	above p	seudo code.	12			(8mks)	
OUES	TION	TWO	(15 MADE	en.					***	
			(15 MARK				177		7	
a) I	Briefly	explain	the stages in	ivolved	in programme	develop	ment. Hig	hlight mair	n activities in e	ach
	stage.	3 p					1			
	Po								(12 mark	6)

(3 marks)

QUESTION THREE. (15 MARKS)	1 * 112	11.00
a) Describe THREE features of fourth generation languages (4GLS)	(6mks)
		(omico)
b) List THREE examples of fourth generation programming l	anguages.	(3mks)
c) Describe THREE factors to be considered while choosing a	a programming language	e (6marks)
Question Four. (15 marks)		A 119
a) Draw a flowchart showing		(3mks)
i. The nested IF selection		
ii. The FOR loop		
iii. REPEAT UNTIL loop	4	******
b) Write HTML code that would start a web page with titl	e 'MANAGEMENT S	CIENCE'.
Headline 1 SBE, and headline 2 EXAM SECOND YEAR.	Display a green backgrou	and with the
marquee "HELLO" appearing on the screen.		
	3	(6marks)
Adv. d		
c) State the guidelines for designing good pseudo codes		(6 marks)
QUESTION FIVE. (15 MARKS)		
a) Give two differences between the interpreters and comp	oilers	(2 marks)
 b) Write a pseudo code that would be used to classify anim input the program should display "male" otherwise it sh 		a letter M is
	and an arrangement of the second	(4 marks)
c) The gross salary of employees in LISLIMIT BOOK ENT	TEDDDISE is based on b	ogic colors on

additional benefits as follows. Employees who have worked for the company for more than 10 years receive an additional pay of 10% to their basic salary. Monthly salary bonus based on

monthly sales of books is as follows: above 500,000 monthly sales bonus rate is15%, between 250,000 and 500,000 is 10% and below 250,000 monthly sales is 5%. Draw a flowchart for a program that would be used to calculate the gross salary then output basic, gross and all benefit.

(9 marks)