

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

MAIN CAMPUS

CIT 426: INFORMATION SYSTEMS INNOVATIONS AND NEW **TECHNOLOGIES**

Date: 31st July, 2017

Time: 3.30 - 6.30 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO from SECTION B
- Write your registration number on all sheets of the answer book used.
- Use a NEW PAGE FOR EVERY QUESTION attempted, and indicate number on the space provided on the page of the answer sheet.
- · Fasten together all loose answer sheets used.

ISO 9001:2008 CERTIFIED



SECTION A: ANSWER ALL QUESTIONS

*NB-All Algorithms MUST be accompanied by comments

Question one (30 marks)

	1.a) Explain the 5 Image-Process mechanisms involved in matching a suspect's live photo to the police bounty image. (Ensure the kernel matrices are well elaborated).	ce (20mks)	
	b) Generate the corresponding 5 stage algorithm for (1.a) above.	(10mks)	
	SECTION B: ANSWER ONLY TWO QUESTIONS		
	Question Two (20 marks)		
	2. a) With the aid of relevant sketches explain in 5 stages, the operation mechanism of a capacitive-to-	(15mks)	
	 b) Generate the corresponding 5 stage algorithm for (2.a) above. 	(10mks)	
	Question Three (20 marks) 3. a) With the aid of well derived 5 stage algorithm, explain the operation of a mobile-money-transfer p sending to receiving money).	rocess.(from (10mks)	
	b) Discuss the ways in which the inception mobile-money-transfer technology has impacted on the s	society. (10mks)	
	Question Four (20 marks)		
4. a) With the aid of the relevant illustrations, explain the 5 stage mechanism for running acidi		y test on soils. (10mks)	
	b) Generate the corresponding 5 stage algorithm for (4.a) above.	(10mks)	
	Question Five (20 marks)		
	a) With the aid of relevant diagrams, explain stepwise, how a scanning device can accurately establish the Proximate values inside a packet of yoghurt milk.	(10mks)	
	b) Generate the corresponding 5 stage algorithm for (5.a) above.	(10mks)	