

THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

DEPARTMENT OF SURVEYING & MAPPING HIGHER DIPLOMA IN LAND SURVEY END OF YEAR I EXAMINATIONS NOVEMBER 2007

INFORMATION TECHNOLOGY & ENTREPRENEURSHIP EDUCATION 3 HOURS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this examination:

Answer booklet

Scientific calculator

This paper consists of TWO sections, A and B.

Answer THREE questions from section A and TWO questions from section B.

All questions carry equal marks and the maximum marks for each part of a question are as shown.

This paper consists of $\underline{3}$ printed pages.

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SECTION A: INFORMATION TECHNOLOGY

Answer any THREE questions from this section.

1.	(a) List THREE categories of data collection methods.					(3marks)	
	(b)	(b) Describe briefly the following data processing modes:					
		(i)	Online	(ii)	Distributed		
		(iii)	Real time	(iv)	Batch		
		(v)	Interactive			(20 marks)	
	(c)	Outlin	ne any TWO computer inpu	ıt devio	ces.	(2 marks)	
2.	(a)	(9 marks)					
·					oment. (16 marks)		
3.	(a)		ibe the following data proce	Ü		/F 1)	
	<i>(</i> 1)	(i)	Synchronous	(ii)	Asynchronous	(5 marks)	
	(b)		Discuss the following terms used in networking communication:				
		(i)	Half duplex	(ii)	Duplex		
		(iii)	Parallel	(iv)	Serial	(20 marks)	
4.	(a)	Descr	ibe an expert system.			(20 marks)	
	(b) List FIVE applications of expert systems.					(5 marks)	
5.	(a) List any FIVE operating systems.					(5 marks)	
	(b) Outline THREE network topologies.					(9 marks)	
	(c) List any FIVE applications of networking.					(5 marks)	
	(d)	(d) Explain how information would be sent between two devices that are					
		500kn	n apart over an analogue ne	twork.		(6 marks)	
SECTION B: ENTREPRENEURSHIP EDUCATION							
Answer any TWO questions from this section.							
6.	(a)	prise sector in					
		Kenya	a.			(12 marks)	
	(b)	nercial banks?					
						(8 marks)	

- 7. (a) (i) What is a project? (2 marks)
 - (ii) Using a diagram explain the four phases of a project. (8 marks)
 - (b) Describe personal traits entrepreneurs require for effective networking and interpersonal relationships. (10 marks)
- 8. (a) Advise a small business owner on the importance of record keeping. (10 marks)

Kshs.

(b) From the following information prepare a trading, Profit and Loss account for ABC company for the period ending 30th June, 2007. (12 marks)

Capital	1, 800, 000
Motor vehicle	500,000
Sales	900, 000
Purchases	650, 000
Opening stock	50,000
Advertising	19,000
Accrued expenses	5,000
Salaries and wages	20, 000
Water	1,000
Lighting	2, 500
Transport	4,000
Interest on loan	3, 500
IDB loan	350, 000
Bank overdraft	15, 000
Purchases returns	15, 000

Stock as at 30th June, 2007 was worth shs.20, 000. KRA demands 30% tax on income.