

## THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

## DEPARTMENT OF SURVEYING & MAPPING HIGHER DIPLOMA IN LAND SURVEY END OF YEAR I EXAMINATIONS NOVEMBER 2007 CARTOGRAPHY 3 HOURS

## **INSTRUCTIONS TO CANDIDATES:**

You should have the following for this examination:

Answer booklet

Scientific calculator

Answer any FIVE of the following EIGHT questions.

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

This paper consists of 3 printed pages.

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1.	(a) (i) Explain the TWO types of map revision.						
	(ii)	where each is					
		applied.			(15 marks)		
	(b) State	es map					
	recor	(5 marks)					
2.	Describe	e the factors to be considered	(20 marks)				
3.	(a) Explain the following giving ONE example in each case:						
	(i)	Deed plan	(ii)	Topographic map			
	(iii)	Thematic map	(iv)	Chart			
	(v)	Atlas			(10 marks)		
	(b) Outl	(4 marks)					
	(c) List a	(6 marks)					
4.	(a) Outl	ine the following as used in	Topon	ıym:			
	(i)	National Gazetter	(ii)	Exonyms			
	(iii)	Transliteration	(iv)	Transcription	(10 marks)		
	(b) Expl	al names both					
	natio	(10 marks)					
5.	(a) Explain the following as used in map projection:						
	(i)	Scale factor	(ii)	False origin			
	(iii)	Central meridian	(iv)	Standard parallel	(10 marks)		
	(b) Illustrate the graticule of the following map projections:						
	(i)	Cylindrical	(ii)	Conical			
	(iii)	Azimuthal			(10 marks)		
6.	(a) (i)	) (i) With reference to the following colours of the spectrum, list FOU					
		film emulsions and indicate the colour range to which each emulsion is sensitive:					
	Infrared, Red, Orange, Yellow, Green, Blue, Violet and Ultra						
	(ii) State safety conditions to be applied when handling or proces						
		each sensitive film listed i	n 6(a)(	i).	(14 marks)		

	(b)	Distin	t photography.	(6 marks)						
7. (a) Explain the following as used in mapping:										
		(i)								
		(ii)	Basic map							
		(iii)	Homogeneous derived ma							
		(iv)	Heterogeneous derived m	(10 marks)						
	(b) Distinguish between the following giving ONE example in each case:									
	(i) Absolute and relative quantities									
(ii) Discrete and continuous variables										
	(iii) Qualitative and quantitative maps					(10 marks)				
8.	(a)	State t	graphy.	(6 marks)						
	(b) State the THREE reasons for making proofs before a map is finally									
		printe		(4 marks)						
	(c) Draw a diagram of a single colour offset printing machine and show the following parts:									
		(i)	Inking unit	(ii)	Damping unit					
		(iii)	Impression unit	(iv)	Delivery unit					
		(v)	Feeder unit			(10 marks)				