

THE KENYA POLYTECHNIC

GRAPHIC ARTS DEPARTMENT DIPLOMA IN PRINTING TECHNOLOGY END OF YEAR I SUPPLEMENTARY EXAMINATIONS JANUARY 2007

(MAIN EXAMINATIONS: NOVEMBER 2006 SERIES)

MACHINE PRINTING

3 HOURS

INSTRUCTIONS TO CANDIDATES:

Answer any FIVE questions.

(i)

Gravure

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

© 2007, The Kenya Polytechnic Examinations Office

1.	(a) Distinguish between the following methods of preparing printing							
	surfa	ices:						
	(i)	Engraving	(ii)	Etching				
	(iii)	Photomechanica	1		(6 marks)			
	(b) Describe TWO factors which determine the depth of images on a							
	flexo	(6 marks)						
	(c) With the aid of a diagram explain the multi layer flexographic plate. (8 mark							
2.	(a) Defir	(2 marks)						
	(b) Explain TWO methods of obtaining the image in question 2(a) during							
	litho	(8 marks)						
	(c) With the aid of an illustration explain how gum Arabic preserves a							
	litho	graphic surface.			(10 marks			
3.	Discuss the structures of the following printing surfaces after preparation							

(ii)

Screen

	(iii)	Flexographic	(iv)	Lithographic	(20 marks)			
4.	(a) Wi	With the aid of labeled diagrams, explain the following damping systems:						
	(i)	Flap water feed	(ii)	Brush feed	(14 marks)			
	(b) State TWO possible reasons for image blindness caused by the damping							
	sys	(6 marks)						
5.	(a) Sta	te TWO types of feeder	sheet fed press.	(4 marks)				
	(b) De	(16 marks)						
6.	(a) De	(10 marks)						
	(b) De	(2 marks)						
	(c)Exp	(8 marks)						
7.	(a) De	fine the term 'graining'		(2 marks)				
	(b) Explain any THREE reasons for graining a lithographic plate. (18 marks)							
8.	With the aid of a labeled diagram, explain how a conventional lithographic							
	dampi	ng system works.			(20 marks)			