



# **THE KENYA POLYTECHNIC UNIVERSITY COLLEGE**

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**GRAPHIC ARTS DEPARTMENT  
DIPLOMA IN PRINTING TECHNOLOGY  
END OF YEAR I EXAMINATIONS  
NOVEMBER 2007  
PRINT ORIGATION  
3 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

This paper consists of TWO sections, A and B.

Answer any FIVE questions, choosing AT LEAST TWO from each section.

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

This paper consists of 2 printed pages

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**SECTION A: TEXT GENERATION**

1. Outline any FOUR features that help in identification of text. (20 marks)
2. (a) Describe FIVE characteristics of a good copy. (10 marks)  
(b) Distinguish between a manuscript copy and a typescript copy. (10 marks)
3. (a) State FOUR functions of a colon as used in text generation. (8 marks)  
(b) Define the following:
  - (i) Folio
  - (ii) Set
  - (iii) Kerning
  - (iv) Alphabet
  - (v) Font
  - (vi) Fit(12 marks)

**SECTION B: GRAPHIC REPRODUCTION**

4. (a) State THREE types of originals. (3 marks)  
(b) Explain how TWO of the three originals are reproduced in a process camera. (17 marks)
5. (a) Explain TWO exposure control techniques using a camera aperture and exposure time. (12 marks)  
(b) Find the new aperture to use for a job reduce to 50% size. The correct aperture at same size is 20 seconds at f/16. (8 marks)
6. (a) With the aid of a diagram, explain the inverse square law of light. (8 marks)  
(b) Explain FOUR situations in graphic arts where the law applies. (12 marks)
7. (a) With the aid of a diagram, explain the subtractive theory of process inks. (12marks)  
(b) Explain the meaning of the following terms:
  - (i) Filter factor
  - (ii) Filter ratio(6 marks)  
(c) State which of the following colours is dropped or held when a green filter is used:
  - (i) Red
  - (ii) Green(2 marks)