



THE KENYA POLYTECHNIC
GRAPHIC ARTS DEPARTMENT
DIPLOMA IN PRINTING TECHNOLOGY
END OF YEAR I EXAMINATIONS
NOVEMBER 2006
PRINT FINISHING
3 HOURS

INSTRUCTIONS TO CANDIDATES:

Answer any FIVE questions.

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

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1. (a) Differentiate the following terms:
 - (i) Print finishing and binding
 - (ii) Cutting and trimming
 - (iii) Folding to paper and folding to print
 - (iv) Gathering and inseting
 - (v) Creasing and scoring (10 marks)
- (b) With the aid of diagrams, explain:
 - (i) Dipshear action (ii) Oblique action (10 marks)
2. (a) Explain the term danger zone. (2 marks)
- (b) Explain typical hazardous areas in post press machines. (10 marks)
- (c) Outline any FOUR safety precautions observed in a printing shop. (8 marks)
3. (a) State FIVE sheet control devices on a folding machine. (10 marks)
- (b) Explain any TWO problems that may arise when a folding machine is in operation. (6 marks)

- (c) A sheet of paper size SRA₂ is folded three times and trimmed.
- (i) State the number of pages. (2 marks)
 - (ii) Quote the final size. (2 marks)
4. (a) Distinguish between case binding and library binding in relation to:
- (i) Spine (ii) Cover
 - (iii) End papers (iv) Sewing
 - (v) Head and tail (10 marks)
- (b) With the aid of diagrams describe the following covering styles:
- (i) Cover drawn on (ii) Wrapping (10 marks)
5. (a) With the aid of labeled diagrams, explain the following cutting defects:
- (i) Scooped cut (ii) Bowed/Arc cut (12 marks)
- (b) State ONE cause and remedy in each of the defects in 5(a). (8 marks)
6. (a) Calculate the quantity of paper in reams size SRA₁ required to produce 94, 000 saddle stitched books of 16 pages each size A4. (6 marks)
- (b) Calculate the weight of paper size RA₁, quantity 500 reams, whose grammage is 84gms. (6 marks)
- (c) (i) Determine the cost of paper in 5(b) above given that price per ream is 4000 shillings. (4 marks)
- (ii) State the basic sizes of the following paper series:
- SRAO
- BO (4 marks)
7. (a) There are 100 reams size SRA₂ to be cut to A5. Prepare a program for use on an automatic guillotine indicating all the cuts. (8 marks)
- (b) Describe FOUR safety mechanisms employed in guillotines. (12 marks)