THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

GRAPHIC ARTS DEPARTMENT

DIPLOMA IN PRINTING TECHNOLOGY

END OF YEAR I EXAMINATIONS

NOVEMBER 2007

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.

This paper consists of **3** printed pages

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1. (a) With the aid of diagrams, explain the following covering styles in case bound books:

    (i)   Full bound

    (ii)   Half bound

    (iii)   Quarter bound   (12 marks)

  (b) Explain the functions of any TWO types of end papers.   (8 marks)

2. Differentiate between the following terms:

  (a) "Tipping in" and "Tipping on"

  (b) "Gripper edge" and "side laf"

  (c) "Cutting marks" and "registration marks"

  (d) "Signatures" and "Collation marks"

  (e) "Punching" and "drilling"   (20 marks)

3. State any FIVE measures that should be taken in the event of a fire outbreak in the production area.   (20 marks)

4. (a) With the aid of diagrams, explain the following cutting actions:

    (i)   The dip shear

    (ii)   The oblique

    (iii)   Vertical   (12marks)

  (b) Explain any TWO safety mechanisms employed in guillotine machines.

                                               (8 marks)

5. (a) Calculate the weight in kilograms and value of the job in Kenya Shillings from the following data (use exchange rate of £1=140Ksh)

    (i)   Size of the stock SRAO

    (ii)   Grammage $70g/m^2$

    (iii)   Number of reams 500

    (iv)   Price per kilo £100   (10 marks)

  (b) With the aid of a diagram, show how the following can be obtained from large stock size RA1.

    (i)   2 sheets size A4

(ii)   2 sheets size A5

(iii)   4 sheets size A6

(iv)   3 sheets size $\frac{1}{3}$ A3

(v)   1 sheet size A3   (10 marks)

6. Outline the sequence of operations for a library bound book (repair work).

(20 marks)

7. (a) State any TWO reasons why sheets may be folded by hand.   (4 marks)

    (b) Describe the following folding terms:

      (i)   Folding to paper

      (ii)   Folding to print   (4 marks)

    (c) Using diagrams explain the TWO folding principles.   (12 marks)