



ZIMBABWE EZEKIEL GUTI UNIVERSITY

COLLEGE FOR LIFELONG LEARNING

FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND
FOOD SYSTEMS

EXAMINATION PAPER

Diploma in Graphic Design: Part 1 Semester 2

COURSE CODE : DGD126
COURSE TITLE : Screen Printing and Offset Machine Operation
DURATION : 3 Hours
DATE : 13 JUN 2025

INSTRUCTIONS TO CANDIDATES:

1. Answer **ALL** questions.
2. Each question carries 25 Marks.
3. Start each question on a new page of your answer sheet.
4. Use relevant examples or case studies in answering your questions

Question 1

(a) Define the following printing processes:

- (i) Screen printing
- (ii) Offset printing
- (iii) Digital printing (6)

(b) List and explain three major components of a screen printing press. (9)

(c) Describe the function of a printing plate in offset printing. (10)

Question 2

(a) Explain the difference between spot colour and process colour printing. (8)

(b) Compare and contrast flexography and lithographic printing. (4)

(c) Discuss three factors that affect print quality in screen printing. (13)

Question 3

(a) A company wants to print on fabric using screen printing. Identify and explain three key considerations for achieving a high-quality print. (9)

(b) Describe the role of emulsion in stencil preparation for screen printing. (8)

(c) Explain the importance of registration marks in multi-color printing. (8)

Question 4

(a) A printing company needs to optimize cost while maintaining quality in an offset printing project. Propose a cost-effective printing strategy. (10)

(b) Outline the advantages and disadvantages of water-based and plastisol inks in screen printing. (5)

(c) Suggest an effective maintenance plan for an offset printing machine to ensure high productivity. (10)

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