

B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER – 2025

PRINTING TECHNIQUES

Time : Three hours

Full Marks : 100

Answer from all the groups.

GROUP – A

- 1.a) How can you classify printing? 5
- b) Draw the general work flow of a printed product. 5
- c) Draw a neat sketch of a hot-metal typeface and identify different parts. 5
- 2.a) Discuss the nomenclature of type. 8
- b) Define the following items: 2x2=4
- i) Mark up
- ii) Runaround copy
- c) What are the advantages and disadvantages of ink jet printing? 3

GROUP – B

- 3.a) Describe the basic principle of flat bed and rotary letterpress printing with suitable diagrams. 5+5=10

GROUP – C

Answer any two questions.

- 4.a) Why synthetic fibres are preferred to silk as mesh materials in screen process printing? 7
- b) Make a comparison among different materials used as screen printing frame. 8
- c) Why polyamide meshes are used for printing on uneven surfaces? 3
- d) Why screen pretreatment is necessary in screen process printing? 2

[Turn over

- 5.a) Discuss the various advantages of direct/indirect photostencil making process.
How does it differ from other processes? 5+10
- b) How the registration is done in screen process printing? 5
- 6.a) Why screen fillers are used and how? 1+2
- b) How many types of squeegee blade profiles are available? Discuss briefly. 8
- c) What are the basic ingredients of a solvent-based screen printing ink? Describe briefly. 9

GROUP – D

7. Write short notes on any *five* : 4x5=20
- a) Pinholes
 - b) Adhesion failure
 - c) Early stencil breakdown
 - d) Edge curl
 - e) Sawtoothing
 - f) Veiling