

Ex/PRN/PC/B/T/213/2023(S)

**B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER
SUPPLEMENTARY EXAM – 2023**

PRINTING TECHNIQUES

Time : Three hours

Full Marks : 100

Answer from all the groups.

GROUP – A

- 1.a) Classify the printing and publishing industry into different segments with example. 10
- b) Describe the general work flow of a printed product. 5
- 2.a) Discuss the nomenclature of type. 10
- b) Draw a neat sketch of a hot-metal typeface and identify different parts. 5

GROUP – B

3. Describe the basic principle of platen type 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. 9
- c) Why degreasing is at all required in screen process printing and how it is done?2+2

[Turn over

- 5.a) Which type of coating is used in indirect photostencil making process? How this photostencil is made? Describe in details. 2+10
- b) How many types of squeegee blade profiles are available? Discuss briefly. 8
- 6.a) Why screen fillers are used and how? 1+4
- b) Which factors should one consider during screen ink formulation? Discuss. 10
- c) What are the basic ingredients of a solvent based screen printing ink? 5

GROUP – D

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