Ex/PRN/PC/B/T/213/2024

B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER – 2024

PRINTING TECHNIQUES

Time: Three hours	Full Marks: 100
Time : Time mound	I uli iviains . 100

Answer from all the groups.

GROUP - A

1.a) Write down the classification of the printing and publishing indus	stry into
different segments with example.	10
b) Draw the general work flow of a printed product.	5
2.a) Write down 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) Discuss why synthetic fibres are preferred to silk as mesh materials in screen process printing.
5
b) Discuss and compare among different materials used as screen printing frame.
c) Why degreasing is at all required in screen process printing and how it is done?
Discuss.

[Turn over

5.a) Discuss the type of coating used in indirect photostencil making process	ss. How
this photostencil is made? Discuss 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? Discuss	1+4
b) Which factors should one consider during screen ink formulation? Discuss.	10
c) Discuss the basic ingredients of a solvent based screen printing ink.	5
GROUP – D	
7. Assess screen printing problems and solutions on any <i>five</i> :	4x5=20
a) Early stencil breakdown	
b) Pinholes	
c) Adhesion failure	
d) Sawtoothing	
e) Veiling	
f) Curling	
f) Curling	