## Ex/PRN/PC/B/T/213/2024(S)

## B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER SUPPLEMENTARY EXAM – 2024

## PRINTING TECHNIQUES

Time: Three hours	Full Marks : 100
Answer from all the groups.	
GROUP – A	
1.a) How can you classify printing?	5
b) Mention the basic steps in printing process.	5
c) Draw a neat sketch of a hot-metal typeface and identify different parts.	5
2.a) Discuss the nomenclature of type.	9
b) Define the following items:	2x3=6
i) Typesetting	
ii) Kerning	
iii) Runaround copy	
GROUP – B	
3. Describe the basic principle of platen type and flat bed letterpro	ess 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 i	n screen process
printing?	7
b) Make a comparison among different materials used as screen print	ing[f <b>rame</b> over 8
c) Why polyester meshes are preferred for close registration work?	3
d) Why screen pretreatment is necessary in screen process printing?	2

5.a) Which type of coating is used in direct photostencil making process? I	low 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 <i>five</i> :	4x5=20
a) Pinholes	
b) Adhesion failure	
c) Early stencil breakdown	
d) Edge curl	
e) Sawtoothing	
f) Veiling	