Ex/PRN/PC/B/T/213/2023

B.E. PRINTING ENGINEERING SECOND YEAR FIRST SEMESTER – 2023

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.a) Describe the basic principle of flat bed and rotary letterpre	ess printing with
suitable diagrams.	5+5=10
GROUP – C	
Answer any two questions.	
4.a) Which factors should one consider for selecting screen printing	frames? Make a
comparison among different materials used as screen printing frame.	3+8
b) Why coloured dyes are used in synthetic mesh materials?	4
c) Why polyester meshes are preferred for close registration work?	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 pro-	cess.
How does it differ from other processes?	5+10
b) How the registration is done in screen process printing?	5
6.a) Define make ready.	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? Described	ribe
briefly.	10
GROUP – D	
7. Write short notes on any five:	4x5=20
a) Adhesion failure	
b) Pinholes	
c) Early stencil breakdown	
d) Edge curl	
e) Veiling	
f) Sawtoothing	