BACHELOR OF PRINTING ENGINEERING EXAMINATION, 2010 (1st Year - 1st Semester Supplementary)

PRINTING TECHNIQUES

Full Marks: 100 Time: Three hours Answer any FIVE questions. 1.a) Classify the Printing and Publishing Industry into different segments with 10 example. 5 b) Describe the general flow of a printed product. 5 c) Draw a neat sketch of a Hot-metal Typeface and identify different parts. 9 2.a) Discuss the Nomenclature of Type. 2x2=4b) Define the following items: Typesetting i) Leading ii) Kerning

Gutenberg's invention of the printing press is widely thought of as the origin of mass communication. A closer look at the history of print, however, shows that the invention of the printing press depended on a confluence of both cultural and technological forces that had been unfolding for several centuries.

After composing, it appears like following.

c) The original matter is given below.

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Correct the above composed matter using standard Proofreaders' marks.

[Turn over

3.a) Describe the basic principle of Letterpress Printing with a suitable diagram	n. 5
b) How many different types of Letterpress machine designs are available?	Explain
with diagrams.	15
4.a) Why synthetic fibres are preferred to silk as mesh materials in Screen	Process
Printing?	9
b) Why coloured dyes are used in synthetic mesh materials?	
	4
c) What factors should one consider for selecting Screen Printing Frames?	3
d) Why screen pretreatment is necessary in Screen Process Printing and how?	2+2
5.a) Which type of coating is used in indirect stencil making film? Explain. I	low this
photostencil is made? Describe in details.	2+11
b) How many types of squeegee blade profiles are available? Discuss briefly.	7
6.a) How direct/indirect photostencil making process differs from other process	sses? 7
b) Discuss different problems faced in indirect photostencil making process:	8
c) Why screen fillers are used and how?	1+4
7 o) How the projection is done in Senson Bosenso Beliefo of	
7.a) How the registration is done in Screen Process Printing?	5
b) Which factors should one consider during screen ink formulation? Discuss.	
c) UV curing system has certain merits for screen inks - Discuss.	5
8. Write short notes on any four:	4x5=20
a) Offset	
b) Flexography	
c) Gravure	
d) Ink Jet Printing	
e) Laser Printing	