



RM-7181

B. E. - III (Sem. VI) (Textile Processing)

Examination

May / June - 2010

Technology of Printing - I

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृशविवेक निशान्तीवाणी विगतो उत्तरवडी पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> B. E. - 3 (Sem. 6) (Textile Processing)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> Technology of Printing - 1	<input type="text"/>
Subject Code No. : <input type="text"/> 7 <input type="text"/> 1 <input type="text"/> 8 <input type="text"/> 1	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> 1&2	
	Student's Signature

- (2) Answers to the two sections must be written in separate answer books.
- (3) Figures to the right indicate full marks.
- (4) Tie two sections separately.

SECTION - I

- 1 (a) Answer the following objective questions : 10
- Enumerate different ingredients of printing paste.
 - Which dye is selected as illuminant for discharge printing ?
 - What is Rongolite-C chemically ?
 - Naphthol AS is a low substantive naphthol. True or false. Justify.
 - Why TRO is used in naphthol printing ?
 - Write the full form of BASF.
 - Which discharging agents are used for vat colour ground ?
 - Citric acid is used as a resisting agent for reactive dyes. True or false, justify.
 - Rapidfast powders are more stable than rapidogen. True or false, justify.
 - Give examples of acid liberating agents.
- (b) Explain printing of cellulose with soluble azoic colours. 10

- 2 (a) Show stages of oxidation of aniline to aniline black. 10
 (b) Explain chlorite method of printing solublised vat dyes. 5

OR

- 2 Describe printing of cellulose using procion dyes. 15
- 3 Write short notes on any three of the following : 15
 (a) Leucotrope - O ans W
 (b) Naphthol-nitrite padding method
 (c) Direct discharge on direct ground
 (d) Over printed resist on solublised vat ground.

SECTION - II

- 4 (a) Answer the following objective questions : 10
 (i) Starch is composed of _____ % amylose and _____ % amylopectin.
 (ii) Give examples of synthetic thickeners.
 (iii) Borax forms gel with guar gum which can be used for printing. True or false.
 (iv) Commercially CMC generally have a DS of _____.
 (v) _____ is a indirect method of printing.
 (vi) Indalca AG is available as a lemon yellow powder. True of false, Justify.
 (vii) Define : Gelatinization temperature.
 (viii) What is the effect of acetic acid on viscosity of CMC ?
 (ix) What is difference between starch and cellulose ?
 (x) What is the function of mild oxidizing agent ?
 (b) Give structure, cross section and gelatinization temperature of different starches. 10
- 5 (a) Draw the structure of guar gum and explain modified guar gum. 10
 (b) Classify the styles of printing and explain direct style. 5

OR

- 5 Draw the neat diagram of Roller printing and explain construction and working of different parts. 15
- 6 Write short notes on any three of the following : 15
 (a) Relation between high and low solid thickener
 (b) Burn out style
 (c) Oxidizing and reducing agents
 (d) Locust bean gum.