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SF-7183

B. E. - III (Sem. VI) (TP) Examination

May / June – 2011

Tech. of Dyeing - II

Time : **3** Hours] [Total Marks : **100**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **B. E. - 3 (Sem. 6) (TP)**

Name of the Subject :

☛ **Tech. of Dyeing - II**

☛ Subject Code No. : **7 1 8 3** ☛ Section No. (1, 2,.....) : **1&2**

Seat No. :

Student's Signature

(2) Answer to the **two** sections must be written in same answer book.

(3) Figures to the right indicate full marks.

SECTION - I

1 (a) Answer the following : **10**

(1) What are the functional groups in Nylon ?

(2) What is Barriness in Nylon ?

(3) State the advantages of Carrier dyeing.

(4) State the pressure and temp. of HTHP dyeing.

(5) Cite advantages of CDPET over PET.

(6) What is cationic dye ?

(7) What are micro denier polyester ?

(8) Why PP is difficult to dye ?

(9) State popular blend of P/C.

(10) Why glauber salt is added during CDPET dyeing ?

(b) Explain carrier dyeing of PET with their advantages and drawbacks. **10**

2 Explain dyeing of Microdenier polyester fabric in detail. **15**

OR

2 Discuss dyeing of polyester by

(a) HTHP dyeing

(b) Thermosol dyeing.

3 Attempt any **three** short notes : **15**

(a) Rapid dyeing technology

(b) Levelling agents for Nylon

(c) Textured PET processing

(d) P/C blend processing.

SECTION - II

4 (a) Answer in short : **10**

(1) State the principle of Jet dyeing m/c.

(2) List two m/cs for yarn dyeing of cotton.

(3) State some dyeing manufacturer name.

(4) Give some advanced version of padding mangles.

(5) What are metal complex dyes ?

(6) What are modacrylic fibres ?

(7) Give some trade names of cationic dyes.

(8) Why Acrylic require copolymerisation ?

(9) What are procelan dyes ?

(10) What is the major drawback of Jigger m/c ?

(b) Explain dyeing of silk with suitable colours. **10**

5 Give principle, construction and working of any two dyeing mc/s : **15**

(a) Beam dyeing m/c

(b) Standfast molten metal m/c

(c) Winches.

6 Attempt short notes : (**three**) **15**

(a) Jiggers

(b) PAN

(c) Material of construction for dyeing m/c

(d) Cationic dyes.