



RM-7911

B. E. - IV (Sem. VIII) (TT) Examination

May / June - 2010

Elective : Knitting Technology

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशविक निशान्नीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. E. - 4 (Sem. 8) (TT)	<input type="text"/>
Name of the Subject :	<input type="text"/>
Elective : Knitting Technology	<input type="text"/>
Subject Code No. : <input type="text"/> 7 <input type="text"/> 9 <input type="text"/> 1 <input type="text"/> 1	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> 1&2	<input type="text"/>
	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) Fill up the blanks. 5
- (i) In two-bar warp knitted structures, the yarn to be displayed prominently is controlled by the _____.
- (ii) If the thread in the warp is always lapped around the same needle and intermeshed in a wale direction a _____ stitch is formed.
- (iii) In Locknit structure the direction of front guide bar and back guide bar movements are opposite but front guide bar makes _____ underlaps than back guide bar.
- (iv) Smaller the movements of the front guide bar, the _____ is the fabric rigidity.
- (v) The repeat of the 4-course ATLAS completes on _____ courses.

- (b) Define the following : 5
- (i) Tuck Loop
 - (ii) Under lap
 - (iii) Sinker Loop
 - (iv) Needle Loop
 - (v) Open Loop.
- (c) Explain properties of Knits as compared to wovens. 10
- 2** (a) Describe Reverse Locknit structure by the thread diagram and the lapping movements of the two guide bars. 5
- (b) Describe the knitting cycle with compound needles. 10
- OR**
- 2** (a) Describe Satin structure by the thread diagram and lapping movements of the two guide bars. 5
- (b) Describe the cycle of operation using a fall plate on Raschel. 10
- 3** (a) Write short notes on any **three** : 15
- (i) Co-we-Knit
 - (ii) Important yarn properties for warp knitting
 - (iii) Outer wear fabrics
 - (iv) History of knitting.

SECTION - II

- 4** (a) Fill in the blanks : 10
- (i) Interlock machines have two sets of needles _____ and _____.
 - (ii) The needle that was first invented was _____.
 - (iii) The four basic weft knit structures are : _____, _____, _____, and _____
 - (iv) The 2×2 rib structure is also called _____ rib.
 - (v) The two types of positive feed mechanisms used in knitting are _____ and _____.
- (b) Explain in detail the knitting action with a latch needle. 10

- 5 (a) Explain in detail the characteristics of a single jersey structure. 5
- (b) Explain in detail the Multi-step pattern drum device. 20
- OR**
- 5 (a) Explain in detail the formation of float and tuck knit structures. 10
- (b) Explain in detail the spring beard needle. 5
- 6 Write short notes on any **three** : 15
- (i) Needle cam
 - (ii) Electronic patterning devices
 - (iii) Purl Structure
 - (iv) Testing of weft knit structures.
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