

Printed Pages : 4



NCT401

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 164410

Roll No.

--	--	--	--	--	--	--	--	--	--

**BTECH**  
**(SEM. IV) THEORY EXAM. 2014-15**  
**CARPET TECHNOLOGY**

Time : 3 Hours]

[Total Marks : 100

- Note :** 1. Attempt the questions as indicated.  
2. All the questions carry equal marks.

**Q1.** Attempt any *two* questions from the following : 10x2=20

- (a) Describe the origin of carpet tufting. What has been the limitation in the tufting process until recent years?  
(b) What are the advantages and the disadvantages of hand - knotted carpet making and single - needle tufting?

**Q5.** Attempt any *two* questions from the following : 10x2=20

- (a) Discuss in detail, with examples the classification of carpet designing that involves various materials and methods.  
(b) What are the different sources of design ideas with a few style of design. Draw an example  
(c) Define the various elementary considerations which are important in designing floor covering.

- (c) Describe the position of Indian carpet industry and carpet in global market.

**Q2.** Attempt any *two* question from the following : 10x2=20

- (a) Explain the terms (i) yarn count (ii) yarn ply (iii) yarn twist (iv) stitch length (v) stitch rate and (vi) gauge.
- (b) The earliest carpets were made by hand. Describe the process, explaining how the foundation fabric and the pile were constructed.
- (c) Use the diagrams to show the formation of the Ghiords and Sehna knot - used for hands knotted carpet construction.

**Q3.** Attempt any *two* question from the following : 10x2=20

- (a) Compare X-SBR, HSL and EVA latex products, in particular where each is mostly used. List the equipments that may be included in the entry section of a back - coating line.
- (b) Explain what is meant by 'curing'. How is this process performed?
- (c) What are the types of oven used for drying and curing? Why are the heated drum dryers favoured?

**Q4.** Attempt any *two* question from the following : 10x2=20

- (a) What are the objectives of packing? What are the three different stickers pasted on carpet?
- (b) Describe the concept of preproduction analysis.
- (c) How do you determine the tuft - bind strength of a tufted loop - pile carpet?