

B TECH
(SEM-IV) THEORY EXAMINATION 2018-19
CARPET TECHNOLOGY

Time: 3 Hours**Total Marks: 100****Note: 1. Attempt all Sections. If require any missing data; then choose suitably.****SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Give four advantages of a carpet.
 - b. Find the number of knots per square inch in a hand knotted carpet of quality 9/45.
 - c. Distinguish, by means of a diagram if necessary, between the *total pile weight* and the *shorn pile weight* of a carpet.
 - d. What are the advantages and disadvantages of single needle tufting?
 - e. Explain the terms count, ply, twist, *stitch length*.
 - f. Write and draw two types of knots used in hand knotted carpets.
 - g. What is meant by curing?
 - h. What are the uses of secondary backing fabric?
 - i. What are the common defects in the woven carpet?
 - j. What are the steps of design making process?

SECTION B

- 2. Attempt any three of the following: 10x3=30**
- a. Describe the manufacture of 5/12 hand knotted carpet giving details about loom, warps knots.
 - b. What types of machines are used in entry section of a back coating machine? Explain their function with figure.
 - c. What are the three types of ovens used for drying and curing? Why are heated drum dryers favored?
 - d. List the processes that may occur after back finishing of a tufted carpet.
 - e. Carpet Designing involves various materials & methods, classify with example?

SECTION C

- 3. Attempt any one part of the following: 10x1=10**
- a. Define the term carpet. Explain different textures possible in a carpet
 - b. Which type of carpets display the greatest degree of skill and artistry? How do Turkish carpets compare with these?
- 4. Attempt any one part of the following: 10x1=10**
- a. Describe the manufacture of a 12/60 hand knotted carpet giving details about loom, warps, and knots.
 - b. Discuss in detail manufacturing of a hand tufted carpet starting from construction of primary backing fabric, design transfer and tufting operation?
- 5. Attempt any one part of the following: 10x1=10**
- a. Explain in detail the process, design method used in carpet designing?
 - b. Mention few important sources of drawing/design with brief description on it?
- 6. Attempt any one part of the following: 10x1=10**
- a. What are the main functions of carpet finishing? Compare briefly two main types of backing fabrics, used in carpet manufacture.
 - b. Describe the common defects found in knotted carpets and woven carpets.
- 7. Attempt any one part of the following: 10x1=10**
- a. Write a short note on quality control in carpet industries.
 - b. What is the use of competitor analysis? How do you perform it?