

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

Paper ID : 164410

Roll No.

**B. TECH.**

**Theory Examination (Semester-IV) 2015-16**

**CARPET TECHNOLOGY**

*Time : 3 Hours*

*Max. Marks : 100*

**Section-A**

**1. Note : Attempt all questions. All questions carry equal marks. Write answer of each part in short. (10×2 = 20)**

- (a) What are the common defects in the woven carpet?
- (b) What are the steps of design making process?
- (c) Name the classification for design categories?
- (d) What type of machines are used in latexing unit?
- (e) Why woolen is preferred in manufacturing handknotted carpet?
- (f) What are the main functions of carpet finishing?

- (g) What are the functions of secondary backing fabric?
- (h) What is the purpose of curing & drying?
- (i) What are the common defects in hand knotted carpet?
- (j) What are the materials for carpet design?

### Section-B

2. Answer any five questions : (5×10 = 50)

- (a) Explain briefly the functions of:
  - (i) *a face brush*
  - (ii) *a pile lifter*
  - (iii) *a proximity sensor*
- (b) Antistatic fibres can be used to overcome static problems in carpets. Describe four ways in which this can be achieved.
- (c) Compare
  - (i) the different stages where shearing is usually carried out for tufted and woven carpets;

- (ii) the shearing of cut-pile, level loop-pile and sculptured loop-pile carpets.
- (d) Discuss the importance of various elements used for Carpet design with some example.
- (e) Calculate the total pile weight of a 3/16 gauge carpet tufted from 640 tex yarn at 8 stitches per inch and 9 mm pile height.
- (f) List 10 properties of an 'ideal' carpet fibre.
- (g) With a flow diagram explain the process control in a carpet industry.
- (h) Write 5 objectives of Packaging

**Section-C**

**Answer any two questions**

(15×2 = 30)

3. What is the Percentage contribution of hand made carpet industry in total textile trade. Analyse the situation and suggest scope of technological upgradation for further exploration.

4. Elaborate sources of designing inspiration & draw 10 motifs meeting market trend.
5. Write a short note on quality control in carpet industries.

