

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

Paper ID : 164858

Roll No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

B.TECH.

Theory Examination (Semester-VIII) 2015-16

ADVANCES IN CARPET MANUFACTURING

Time : 3 Hours

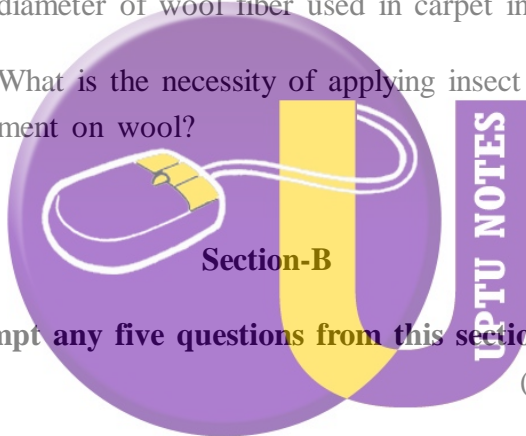
Max. Marks : 100

Section-A

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

- (a) Name Prime areas where carpets are used.
- (b) Which pile fibre is traditionally used in carpets and give justified reasons for that?
- (c) Why melt spinning is not used for acrylic fibres?
- (d) Give few advantages of acrylic fibre?
- (e) How is nylon 66 produced?

- (f) Write two techniques through which texturing of BCF yarn is done?
- (g) Why direct spinning of filament yarns are not used in carpet industry?
- (h) Give one problem associated with long woolen fiber and short woolen fiber
- (i) How is wool fiber diameter expressed? What is the diameter of wool fiber used in carpet industry?
- (j) What is the necessity of applying insect resist treatment on wool?



2. **Attempt any five questions from this section.**

(5×10 = 50)

- (a) Brief three different steps in yarn engineering?
- (b) Write short notes on any two of the following :
 - (i) autoclave twist setting
 - (ii) superba twist setting
 - (iii) suessen twist setting.

- (c) Describe the setup used for batch dyeing of carpet? give suitable diagrams.
- (d) What are the choice of polymers for artificial turf fibres or yarns?
- (e) Describe a typical scouring line.
- (f) What are the different components of wool blend used in carpet yarn production?
- (g) What are the types of textiles used in relation to the sports surfaces?
- (h) What are the specifications required for the carpets used in commercial spaces?

Section-C

Note : Attempt any two questions from this section

(2×15 = 30)

3. Describe the snehabha backing technique used in the tufted carpets

(3)

P.T.O.

4. What are the different steps used in the manufacture of hand knotted carpets
5. How is the resilience factor of yarn and fibres important in sports surfaces?

