

- b) Elucidate the specification for a carpet as prescribed by the IWS.
- c) Write short notes on any *two* from the following :
- Stitch rate and pitch of a carpet,
 - Pile density and pile mass.
 - Location suitability of a carpet.

Printed Pages : 4



ECT609

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

PAPER ID : 164608

Roll No.

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BTECH
(SEM. VI) THEORY EXAM. 2014-15
CARPET TESTING

Time : 2 Hours]

[Total Marks : 50

- Note :** 1) Attempt the questions as indicated.
2) Mention the standard norms of carpet testing wherever necessary.

Q1. Attempt any *two* questions from the following : 7x2=14

- Define the Pile mass density factor PMDF. Explain the procedures for measuring the PMDF of a carpet.
- Elucidate the classification of carpet testing. Why is

carpet testing a critical phenomena unlike textile testing?

- c) Mention the chain of carpet properties. Name the performance specification and the manufacturing specification of a carpet as prescribed by the Australian Carpet and Classification Scheme (ACCS).

Q2. Attempt any *two* questions from the following : 6x2=12

- a) Define objectively the meaning of "tuft binding". Why is the measurement of tuft binding more appropriate in tufted carpet unlike knotted carpet?
- b) Explain briefly how the assessment of changes in the surface structure of a carpet is made in the laboratory. Mention the relevant test standard.
- c) Elucidate the procedure for the measurement of the wool carpet pile abrasion. Mention the relevant test standard and norms.

Q3. Attempt any *two* questions from the following : 6x2=12

- a) What do you mean by the flame resistance of a carpet? Elucidate any internationally accepted procedure for the measurement of flame resistance of a carpet.
- b) Elucidate the procedures for measurement of compressibility of a carpet. Elucidate the 'work of compression' and 'work of recovery' on a carpet.
- c) Elucidate the procedures for the measurement of the dynamic loading properties of a carpet. How is it different from static loading?

Q4. Attempt any *two* questions from the following : 6x2=12

- a) Elucidate the specification for the hand - knotted carpet. Mention the relevant standard.