B. TECH.

(SEM. VI) EXAMINATION, 2006-07

CARPET YARN MANUFACTURING - II

Time : 3 Hours] [Total Marks : 100

Note :  (1) Attempt all questions.
       (2) All questions carry equal marks.

1 Attempt any two parts of the followings:
   (a) Make a flow chart diagram of process involved in
       semi worsted system.
   (b) How greasey material and other impurities of wool
       are removed? Discuss the process.
   (c) What do you understand by spin finish? Why and
       how it is applied?

2 (a) How stripping is done in a Roller and Clearer Card?
   (b) Discuss the skeed and settings (Gauge) at different
       places of a card.
   (c) Give a brief description of a rubbing frame.

3 (a) How balloons are controlled in a ring frame? What
     is effect of yarn quality.
   (b) Discuss the various faults of carpet yarn. How they
       are removed?
   (c) Describe the various faults of carpet. How they are
       being removed?

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Find out the production of a ringframe with following particulars:
Yarn count - 30² Nm
T.M. - 3.2
Spindle speed - 9000
No. of spindles - 440
Efficiency - 85%
(May assume any required data)
Calculate the production in 8 hours in kgs.

4 (a) What are the objects of Grilling machine? How these objects are performed?
(b) How many types of grills are generally used? Explain their performances.
(c) Discuss the combing operation in worsted system.

5 (a) Differentiate between direct and indirect count systems.
Define:
(i) Tex
(ii) Denier
(iii) Worsted
(iv) English count systems.
(b) Write in details the specification of cotton yarn used in carpet manufacturing.