



UF-6301
B. E. II (Sem. III) (Textile Technology)
Examination
May/June – 2012
Yarn Manufacturing - I

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

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| <p>नीचे दशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. E. II (Sem. III) (Textile Technology)</p> <p>Name of the Subject : Yarn Manufacturing - I</p> <p>Subject Code No. : 6 3 0 1 Section No. (1, 2,.....): Nil</p> | <p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div> |
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(2) Figures to the right indicate full marks.

- 1 (a) Answer the following objectives questions. 10
- (1) Name any two auxiliary equipments used in blow room. 2
- (2) Define English cotton count. 1
- (3) Define cleaning efficiency. 1
- (4) Write elements of grid. 2
- (5) Write any two factors influencing opening and cleaning. 2
- (6) A cleaning line removes only about _____ % of the trash and dust in the material. 1
- (7) Dedusting in the blow room happens by _____. 1
- (b) With a neat sketch, describe construction and working of Knife roller gin. 10

- 2 (a) Explain in detail about piano feed mechanism. 10
 (b) With neat sketch, explain air flow cleaner. 10

OR

- 2 (a) Explain passage of material in blow room line. 10
 (b) Write in detail about objects in blow room. 5

- 3 Write short notes on any three of the following. 15
 (a) Different opening devices used in blow room line.
 (b) The multiple mixer.
 (c) The dual roller cleaner.
 (d) Automatic bale opener.

- 4 (a) Answer the following objective questions. 10
 (1) In modern card, production rate is approx. 1
 _____ kg./h.
 (2) The degree of cleaning achieved by modern card 1
 is in the range of _____ %.
 (3) Elimination of foreign matter occurs mainly 1
 in the region of the _____.
 (4) The card eliminates fewer than _____ % 1
 of short fibers.
 (5) Card silver has a hank ranging from _____ 1
 Ktex.
 (6) The overall degree of cleaning achieved by the 1
 blowroom and the carding together is as high as
 _____ %.
 (7) What is the function of Grid in carding 1
 machine ?
 (8) The main cylinder in carding machine rotate at 1
 speeds approx _____ rpm.
 (9) State any two functions of carding machine. 2
 (b) With a neat sketch, explain principle of operations 10
 in carding machine.

- 5 (a) Explain in detail about features of modern card. 10
(b) Write in detail about maintenance of card. 5

OR

- 5 (a) Explain in brief about chute feed by system. 10
(b) Discuss in brief about short term autolevelling. 5
- 6 Write short notes on any three of the following. 15
(a) The flats.
(b) Metallic clothing.
(c) Card settings.
(d) Duo or Tandem cards.
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