

17568

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Answer any TEN of the following:

20

- State any four advantages of TFO.
- State the object of fancy doubler.
- Define resultant count.
- State objects of winding machine.
- Define Traverse ratio.
- List the advantages of photo electric yarn clearing.
- Define back doubling.
- List the names of naval.
- Why false twist is necessary?
- State the object of DREF – II.

P.T.O.

- k) State the object of SIRO spinning.
- l) State any four yarn characteristics of air jet yarn.
- m) What are the advantage of compact yarn?
- n) State the object of air jet spinning.
- o) State the operating principle of wrap spinning.

2. Answer any TWO of the following: 16

- a) Differentiate between ring doubler and two for one twister. (any eight points)
- b) Describe in detail the characteristics and manufacturing process of :
 - (i) Voile yarn,
 - (ii) Sewing threads.
- c) Enlist the different types of fancy yarns. Write any four fancy yarn characteristics and describe their method of production.

3. Answer any TWO of the following: 16

- a) Differentiate between drum and precision winding machine with its advantages and disadvantages.
- b) Describe construction and working of drum winding machine.
- c) Write difference between mechanical and electronic clearers.

4. Answer any TWO of the following: 16

- a) Enlist the limitations of ring spinning.
- b) With neat sketch describe the passage of material through rotor spinning.
- c) With neat diagram describe rotor and naval also write their importance.

5. Answer any TWO of the following:**16**

a) Define:

(i) Back doubling

(ii) Wrapper fibres.

and their effect on rotor yarn properties.

b) State any eight modern developments in rotor spinning.

c) Explain SIRO spinning with neat sketch also state the properties of SIRO yarn.

6. Answer any TWO of the following:**16**

a) Explain the effect of rotor speed and diameter on yarn properties

b) With neat sketch describe DREF – III passage of material.

c) With neat sketch describe Bobtex spinning.
