

# 22580

**11920**

**3 Hours / 70 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. Attempt any FIVE of the following: **10****
- a) State objectives / functions of worker and stripper on woolen carding machine.
  - b) State any four application of jute yarn.
  - c) Draw a neat sketch of life cycle of silkworm.
  - d) State the objectives of blending and mixing.
  - e) Give the process flow chart for polyester cotton blended yarn.
  - f) State the physical and chemical properties of viscose fibres.
  - g) Give the process flow chart for wool - polyester blended yarn.

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- 2. Attempt any THREE of the following: 12**
- a) Draw and label worsted carding machine.
  - b) Describe with neat sketch gill drawing for jute fibres.
  - c) List the types of silk yarn and give any two properties for each yarn.
  - d) Suggest the changes to be made to process polyester cotton blend material in spinning.
- 3. Attempt any THREE of the following: 12**
- a) Give the process flow chart for worsted spinning and state the objectives of each process.
  - b) Describe with neat sketch recti-linear combing.
  - c) Differentiate any four points between woollen and worsted yarn.
  - d) Give the process flow chart for woollen spinning and state the objectives of each process.
- 4. Attempt any THREE of the following: 12**
- a) Classify the silk yarn and state the application of each yarn.
  - b) Explain the procedure of cultivation of Cocoon.
  - c) Define degumming, also state the importance of degumming of silk.
  - d) Define tinting. State the importance of application of spin finish to the synthetic fibres.
  - e) Explain processing of wool and viscose blend on worsted system with respect to following points:
    - (i) Specification of fibers
    - (ii) Process parameters and
    - (iii) Machine parameters

- 5. Attempt any TWO of the following:** **12**
- a) Explain the application of spin finish and its effect on fibre and yarn properties.
  - b) Explain the changes to be made while processing blend constituents on cotton system.
  - c) State any six properties of wool acrylic blended yarn.
- 6. Attempt any TWO of the following:** **12**
- a) State any six properties of wool-polyester blended yarn.
  - b) Suggest processing and machine parameters for wool and polyester blend fibre.
  - c) List the names of blended yarn faults and state their causes and remedies.
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