

22580

12425

03 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.
 - (8) Use of Steam tables, logarithmic, Mollier's chart is permitted.

Marks

1. Attempt any FIVE of the following 10
- a) State application of jute yarn.
 - b) State properties of linen yarn.
 - c) State objectives of degumming of silk.
 - d) Classify different types of silk cultivated in India.
 - e) State objective of tinting.
 - f) State reason for applying spin finish to the fibres before blending.
 - g) Describe the blended yarn fault - cracker. State causes of the same.
 - h) State reason for keeping wider setting between various parts on card while processing man-made fiber.

P.T.O.

- 2. Attempt any THREE of the following** **12**
- a) Draw flow chart - for production of woolen yarn and state objective of each process.
 - b) State various end uses of jute yarn.
 - c) Define
 - i) Degree of mixing
 - ii) Index of blend irregularity.
 - d) Give sequence of operations to be followed for production of polyester wool blended yarn on worsted system.
- 3. Attempt any THREE of the following** **12**
- a) Draw diagram of worsted card and name various parts.
 - b) Explain the manufacturing of jute yarn with the help of a process flow chart. Explain objectives of each process.
 - c) Explain in detail manufacturing process of silk yarn from cocoon.
 - d) Explain in detail manufacturing process of wool/acrylic blended yarn on worsted spinning system.
- 4. Attempt any THREE of the following** **12**
- a) With the help of a process flow chart explain the manufacturing of linen yarn. State objectives of each process.
 - b) Explain in detail cultivation of cocoon in India.
 - c) 'List down various common yarn faults appearing in blended yarn. Explain causes of any two of them..
 - d) Elaborate effect of temperature and humidity on blend spinning at ring frame department.
 - e) Explain properties of polyester/wool and wool/acrylic blended yarns produced on worsted spinning system.

- 5. Attempt any TWO of the following** **12**
- a) With the help of a process flow chart explain the manufacturing of worsted yarn. State objectives of each process.
 - b) State objective of gilling. With the help of a neat diagram elaborate the working of gilling machine.
 - c) i) Explain spun silk yarn manufacturing process.
ii) Explain in detail types of silk yarns and their properties.
- 6. Attempt any TWO of the following** **12**
- a) Compare woolen and worsted spinning systems.
 - b) List down various methods adopted for blending of polyester and cotton. Compare relative merits and demerits of them.
 - c) Elaborate the changes to be made at blow-room, carding, draw frame, speed frame and ring frame while processing blends.
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