22246

21718 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.
- (8) Preferably, write the answers in sequential order.

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1. Attempt any FIVE of the following :

- (a) Show flow chart for conversion of yarn to fabric.
- (b) State the practical difficulties while measuring the yarn diameter.
- (c) State objects of winding drum.
- (d) State types of winding machines.
- (e) Define Denier Yarn Numbering system.
- (f) List the features of precision winding machine.
- (g) Calculate the length of yarn over cone, if cone weight is 2.5 kg and yarn count is 40 Ne.

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2. Attempt any THREE of the following :

- (a) Classify the different types of Looms.
- (b) Distinguish between direct and indirect yarn numbering system.
- (c) State the objects of winding process.
- (d) Draw the line diagram of yarn passage through winding machine with name of parts.

3. Attempt any THREE of the following :

- (a) State the main principle of splicing.
- (b) State the causes and remedies for following defects :
 - (i) Soft nose
 - (ii) Patterning
- (c) State the important concept of knot factor in winding.
- (d) (i) Enlist various types of Tensioner in winding machine.
 - (ii) List various types of clearer.

4. Attempt any THREE of the following :

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- (a) Enlist various winding parameters and state its importance.
- (b) Define :
 - (i) Ne
 - (ii) Metric

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- (c) State the significance of objectionable faults in further process of weaving.
- (d) Define the
 - (i) Coil angle
 - (ii) Angle of wind
- (e) Explain method to measure the yarn Linear density.

5. Attempt any TWO of the following :

- (a) Describe the method of yarn traversing with schematic figure.
- (b) Construct the classimat-II chart for different size of yarn defects.
- (c) Calculate the equivalent yarn number in English count for following counts :
 - (i) 150 Denier
 - (ii) 15 Nm
 - (iii) 30 Tex

6. Attempt any TWO of the following :

- (a) Describe the principle of winding with suitable diagram.
- (b) Outline the line sketch of different yarn feed packages and delivered feed packages on winding machine.
- (c) The winding drum of a high speed cone winder having a diameter of 3" make 2870 rpm. The actual amount of yarn wound in 9 hours was found to be 332,838 yards. What is the efficiency of a high speed cone winding machine ?

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