17690

15162

3 Hours / 100 Marks Seat No. | | | | | | | | |

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 FIVE of the following : **5×4=20**

(a) What are the characteristics of Key variable ?

(b) Write the norms for waste and yarn realisation of 40s Carded and 60 combed.

(c) Write the importance of Yarn realisation.

(d) Write the function of gravity traps and grids used in Blow-room.

(e) Write the formula of FQI and CQI.

(f) Define transfer efficiency of card. Write any four factors affecting transfer efficiency.

(g) Describe the principle of roller drafting.

2. Answer any TWO of the following : **2×8=16**

(a) Define Machinery audit. Write the importance of machinery audit.

(b) Write the different ways to establish the standards or norms for process control.

(c) Describe control of mixing quality through fibre characteristics.

3. Answer any TWO of the following : 2×8=16

(a) Write the causes and remedies of lap irregularity and quality of laps.

(b) Write the causes and remedies of neps in carding.

(c) Define fractionating efficiency of comber. Write the factors affecting on fractionating efficiency.

4. Answer any TWO of the following : 2×8=16

(a) Write the effect of relative humidity and temperature on quality of Rove.

(b) Write the causes and remedies of end breakages in ringframe.

(c) Write the control of within and between count variation.

5. Answer any TWO of the following : 2×8=16

(a) Write the different package faults in winding, also write causes and remedies of above faults.

(b) Write the classification chart of a classimat-II yarn faults.

(c) Describe the method of estimating the productivity of a mill.

6. Answer any TWO of the following : 2×8=16

(a) Write the graphical method for controlling mixing quality and cost.

(b) With neat sketch describe AFIS nep tester.

(c) Write the factors affecting on Yarn Strength.

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