17690

16117

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. Attempt any FIVE of the following: **20**

a) Write the objects of process control in spinning.

b) Write the parameters of key variable.

c) Write norms for yarn realisation of 30^s carded yarn.

d) How do you control the waste in carding?

e) Write the comparison of methods between ribbon lap and lap former.

f) Write the periodic ir-regularity due to mechanical faults in Ring frame.

g) What is Neps? How Neps generation can control in carding?

Marks

2. Attempt any TWO of the following: **16**

a) How do you select the key-variables to control the process? Also write the names of key-variables from blow-room to ring frame department.

b) Why "adjustment to allowance for hank meter" is required? Explain about adjustment procedure.

c) Write the formulas of FQI and CQI, also write the importance FQI and CQI.

3. Attempt any TWO of the following: **16**

a) Write the graphical method to control mixing quality and cost.

b) With neat sketch describe gravity trapa and grids used in blow-room.

c) Write the assessment of blow-room waste.

4. Attempt any TWO of the following: **16**

a) With neat sketch describe AFIS nep tester.

b) How would you evaluate the performance of comber?

c) Write the principles of roller drafting.

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

a) Write the effect of Relative humidity and temperature on speed frame performance and process waste.

b) Write the factors affecting on yarn strength.

c) Write the yarn faults and package defects in Ringframe yarn.

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

a) How do you optimize the quality of winding?

b) Write the classification of classimate-II yarn faults.

c) Define MPI, LER and MEI.
