21718 3 Hours / 100 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:

20

- (a) Enlist and explain the objectives of finishing treatments.
- (b) Draw a neat & labelled diagram of calendaring machine and explain its working principle.
- (c) Define '% expression' and '% add on' with one example each.
- (d) Enlist the objectives of wash down effects on denim garments.
- (e) Draw a neat & labelled diagram of a tumble drier and write its working principle.
- (f) Write a note on Nano finishes.
- (g) Explain the term 'Speciality finishes'.

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2. Attempt any TWO:

16

- (a) Write the mechanism involved in the crease resisting finishing of cotton. Explain the pre-cure and post-cure method of resin finishing of cotton fabrics.
- (b) Write down the principle and working procedure of garment dyeing machine & washing machine.
- (c) Explain 'UV protection finish' and 'fragrance finish' in detail.

3. Attempt any TWO:

16

- (a) With a neat & labelled diagram, explain the working principle of sanforising and compacting machine.
- (b) With a proper flow chart, write the process sequence of stone washing of denim garments. Also write the advantages and limitations of stone washing.
- (c) With a neat & labelled diagram, explain the working principle of curing cabinet and fusing machines.

4. Attempt any TWO:

16

- (a) Define 'softeners'. Give the classification, mechanism and properties of different softeners.
- (b) Explain the term "Stoneless stone wash effect". Also write the distinct steps involved in the bio-polishing of denim garment with a neat diagram.
- (c) With a neat & labelled diagram, explain the working principle of a pressing machine and hydro extractor.

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5. Attempt any TWO:

16

- (a) With a neat & labelled diagram, explain the working principle of decatising and crabbing process.
- (b) Explain the term 'Flame Retardant finish'? Write objective, principle & working of flame retardant finishes and end uses of flame retardant finished fabrics with two examples.
- (c) Explain the mud wash, and Ion wash treatments of denims. Give two advantages and limitations each of both washes.

6. Attempt any TWO:

16

- (a) Write a detailed note on water repellent finish and anti-microbial finish. Also write two applications each of both finished fabrics.
- (b) Explain the term 'puckering effect' and 'sand blasting'. Write the procedure to achieve the effects.
- (c) Write a detailed note on the different types of stains and stain removing agents. (any four)

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