

17226

11920

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 of the following :

20

- (a) Explain objects of Textile testing.
- (b) Define moisture regain and moisture content.
- (c) Explain significance of fibre length.
- (d) Explain significance of fibre fineness.
- (e) Explain significance of fibre maturity.
- (f) Explain significance of trash in cotton.
- (g) Explain classification of neps.
- (h) List down various causes of nep generation.

[1 of 2]

P.T.O.

- 2. Attempt any TWO of the following : 16**
- (a) Explain procedure for measurement of relative humidity by Hygrometer with suitable diagram.
 - (b) Describe procedure for measurement of fibre length with oil plate method.
 - (c) Explain analysis of fibre diagram obtained by comb sorter method.
- 3. Attempt any TWO of the following : 16**
- (a) A 150 grams of MECH cotton was tested on trash analyser for trash content and it is found that the lint weight is 142 grams and invisible loss of 1% and remaining is trash. Calculate Lint % and Trash %.
 - (b) Explain air-flow principle of fibre fineness measurement with suitable diagram.
 - (c) Explain burning, chemical and microscopic test of fibre identification for cotton fibre.
- 4. Attempt any TWO of the following : 16**
- (a) Explain Zoning method of fibre sampling with suitable diagram.
 - (b) Explain core sampling method.
 - (c) Explain caustic soda method for maturity measurement of cotton fibre.
- 5. Attempt any TWO of the following : 16**
- (a) Explain Gravimetric method of Fibre Fineness measurement.
 - (b) Explain measurement of fibre length by digital fibrograph.
 - (c) Explain uniformity ratio and uniformity index and their usefulness.
- 6. Attempt any TWO of the following : 16**
- (a) Define Micronair, Militex, Decitex and Denier with expression.
 - (b) Explain factors affecting maturity of cotton fibre.
 - (c) Explain causticare method of fibre maturity measurement with neat labelled diagram.
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