

17650

21415

2 Hours / 50 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.

Marks

1. Attempt any SEVEN :

14

- (a) Define Technical Textile.
- (b) Give three end uses from coated textile with its application.
- (c) What are the fusible interlining ?
- (d) State the meaning of filtration.
- (e) Give the application of Non-implatable material.
- (f) Which are implatable materials ?
- (g) Name six health-care products and their application.
- (h) How to measure insulation efficiency of textile ?
- (i) Which are the environmental requirements of military textile ?
- (j) Enumerate electromagnetic spectrum.

2. Attempt any FOUR :

12

- (a) Enumerate classification of 12 technical textiles.
- (b) Mention historical developments of technical textile.
- (c) What is the future for technical textile in India ?
- (d) Compare industrial textile and technical textile.
- (e) How textiles are affected by developments in fibres ?
- (f) Which fibres and fabrics are used in coated fabrics ?

P.T.O.

3. Attempt any FOUR :**12**

- (a) Mention 3 polymers and their special purposes as used in coated fabrics preparation.
- (b) Sketch and describe one method of coating.
- (c) How rotary screen printing technique is used in coating the textile ?
- (d) Give the principles of filtration.
- (e) Describe with graph the relation of filtration efficiency & pressure.
- (f) Give the filtration spectrum.

4. Attempt any FOUR :**12**

- (a) How extracorporeal devices from technical textile helps to human being ?
 - (b) Give the historical developments of medical textile.
 - (c) Which properties of technical textiles help to military land forces ? How ?
 - (d) What are the requirements of military textile with respect to heat and flame ?
 - (e) Describe camouflage concealment in military textile.
 - (f) How thermal insulation is achieved in military clothing ?
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