



# 17650

11819

2 Hours / 50 Marks

Seat No.

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- Instructions :**
- (1) *All questions are compulsory.*
  - (2) *Illustrate your answers with **neat** sketches **wherever** necessary.*
  - (3) *Figures to the **right** indicate **full** marks.*
  - (4) *Assume suitable data, if **necessary**.*
  - (5) *Mobile Phone, Pager and any other Electronic Communication devices are **not** permissible in Examination Hall.*

**Marks**

1. Attempt **any seven** :

**14**

- a) Define technical textiles.
- b) What is meant by coated textiles ?
- c) State applications of coated fabrics.
- d) Define medical textiles. Enlist any two examples of medical textiles.
- e) Enlist various hygiene products.
- f) What is the meaning of flame retardant ?
- g) What is laminated fabrics ?
- h) Explain non-implantable material.
- i) Recite the environmental requirements of military textiles.
- j) Classify the medical textiles.

2. Attempt **any four** :

**12**

- a) Explain classification of technical textiles.
- b) State the physical properties of coated fabrics.
- c) Explain the principles of filtration.
- d) State the uses of medical textiles.
- e) Recites the characteristics of materials used for medical textiles.
- f) Differentiate between industrial textile and technical textile.

**P.T.O.**

**3. Attempt any four :**

- a) Explain history and present status of technical textiles.
- b) Explain chemistry of coated fabrics.
- c) Explain dust filtration.
- d) Explain finishing types used for filtration applications.
- e) Explain about thermal insulations products.
- f) Explain heat protective military textiles.

**4. Attempt any four :**

- a) Briefly comments on technical textiles.
  - b) Explain the material used for coating and substrates for coating.
  - c) Explain filtration spectrum.
  - d) Explain camouflage concealment and deception.
  - e) State the requirements of military textiles with respect to heat and flame.
  - f) State applications of technical textiles.
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