



17650

16172

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.*

Marks

1. Attempt any seven :

14

- a) Define technical textiles.
- b) Enlist tests to be performed for filter fabrics.
- c) Enlist different types of polymers used for coating of technical textiles.
- d) What is laminating ?
- e) Define medical textile.
- f) Define filtration.
- g) Which are different types of high performance fibers used in defence textiles ?
- h) Give classification of filtration with reference to particle size.
- i) Differentiate between extra-corporeal and corporeal material.
- j) What is role of electromagnetic spectrum in military textile ?

2. Attempt any four :

12

- a) Give classification of technical textile with its application.
- b) What is Okeo-Tech. ? Explain various application of okeo-tech.
- c) What is status and present future of technical textile ? Explain with facts and figures.
- d) Which are the different fibers and fabrics used in coating ?
- e) What is fusible interlining ? Explain its application in cloth-tech.
- f) Explain application of Agro. tech. and Indu-tech.

3. Attempt any four :

12

- a) Enlist various coating techniques and explain any one of its with neat figure.
- b) What is build-tech. ? Explain various application of technical textile material in build-tech.

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- c) Differentiate between coating and laminating with different applications.
- d) Explain with neat figure various principles involved in filtration.
- e) Which are different types of fibers and fabrics used for various filtration application ?
- f) What is camouflage and conceal mark ?

4. Attempt any four :

12

- a) Give classification of medical textile.
 - b) What are non-implantable medical textile ? Enlist their various uses.
 - c) What is role of health care and hygienic products in medical textile ?
 - d) What are the criteria to be decided while selecting military textiles ?
 - e) What is role of technical textile in protection against cold-wet condition in military textile ?
 - f) What are flechets ? How its severity is controlled using high performance textile fibers ?
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