

Printed Pages:02

Paper Id:

164220

Sub Code: NHTT804/EHTT805

Roll No.

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B TECH**(SEM-VIII) THEORY EXAMINATION 2018-19****ADVANCE HOME TEXTILES****Time: 3 Hours****Total Marks: 100**

- Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

SECTION A

1. **Attempt all questions in brief.** **2 x 10 = 20**
- a. Enlist various factors which influence the selection of clothing type.
 - b. Enlist various physiological factors of clothing comfort.
 - c. What are flexible textile composites?
 - d. Enlist various forms of textile construction for manufacturing of rigid composites.
 - e. Write down various stages of incorporation smartness in textiles.
 - f. What do you understand chromic materials?
 - g. Write down various textile fibres used in automotive textiles.
 - h. What do you understand by seat belt in automotives?
 - i. Enlist various classes of functional clothing.
 - j. What do you understand by pesticide protective clothing?

SECTION B

2. **Attempt any three of the following:** **10 x 3 = 30**
- a. Explain fabric assurance by simple testing (FAST) instrument for measuring fabric handle characteristics.
 - b. Discuss shape memory materials.
 - c. Explain manufacturing techniques of tyres used in automotives.
 - d. Describe chemical protective clothing.
 - e. Explain pultrusion technology for manufacturing of rigid composites

SECTION C

3. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Explain “Togmeter” method for measuring of thermal transmission characteristics of fabrics.
 - (b) Explain “Guarded hot plate” method for measuring of thermal transmission characteristics of fabrics.
4. **Attempt any one part of the following:** **10 x 1 = 10**
- (a) Define composite materials. Classify various types of composites. Write down various technical requirements for rigid composites.
 - (b) Enlist various manufacturing techniques of rigid composites. Explain any one with suitable sketch.

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
(a) Write a note on “conductive materials”.
(b) Write a note on “smart textiles for seating”.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
(a) Describe manufacturing of textile upholstery used in automobiles.
(b) Explain textile in engines of automobiles.
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
(a) Explain clothing for antimicrobial protection.
(b) Describe various requirements of thermal protective clothing.