(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2289882　　　Roll No. ▢▢▢▢▢▢▢▢▢▢

B.TECH

Regular Theory Examination (Odd Sem VII), 2016-17

EMERGING TECHNOLOGY

Time : 3 Hours　　　　　　　　　　　　*Max. Marks : 100*

Section - A

1. **Attempt all parts. All parts carry equal marks. Write answer of each part in short.　　(10×2=20)**

   a. What type of polyester is suitable for blending with wool?

   b. What is passive smart textile?

   c. What are intelligent textiles?

   d. Define the term 'breathable textile'.

   e. State shape memory materials.

   f. What is anto - odour finish?

   g. What is size of nano silver particle?

   h. What are low liquor ratio machines?

   i. What are HT enzymes?

   j. What should be density of package for cheese dyeing machine?

Section - B

Note :　Attempt any Five questions from this section.

(5×10=50)

2. What are the drawbacks of pigment printing using kerosene? What are the developments made to overcome these problems? Give recipe of one such kerosene substituted printing paste.

3. Give the developments made in the field of tissue engineering, sutures and wound care textiles.

4. What are conductive textiles? How come these are used as protective clothing?

5. What are geo textiles? Give the developments made in this field.

6. Define micro - encapsulation technique. Describe application of this in smart textiles.

7. Explain how smart textiles make our life comfortable.

8. What are conductive textiles? How come these are used as protective clothing?

9. Describe the emerging technique in pile formation technology for floor covering.

Section - C

Note :　Attempt any two questions from this section.

(2×15=30)

10. Describe emerging technology in carpet backing method?

11. Describe emerging technology in low water consumption dyeing techniques.

12. Discuss emerging technology in lotus - leaf effect finish.

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