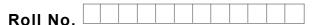


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Total No. of Pages : 02

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B.Tech.(Textile Engg.) (2011 Onwards) (Sem.-3) INTRODUCTION TO TEXTILE ENGINEERING Subject Code : BTTE-302 M.Code : 71654

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) Define Yarn numbering system. Convert 20⁵ N_e to its equivalent tex value without using any direct formula.
- b) What are the units for measuring the fineness of cotton fibre? How it is related to denier while the maturity of the fibre is more than 80%?
- c) Classify and define polymerization processes.
- d) Name different methods of weft insertion for fabric formation.
- e) What are the objects of a carding machine?
- f) What are the objects of warping?
- g) What are the basic ingredients of bleaching? State also different methods of bleaching.
- h) State the secondary motions of a loom.
- i) How crystallinity can affect the properties of a fibre.
- j) State the objects of dyeing. What kind of dye is chosen for polyester fabric?



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SECTION-B

- 2. Give a brief classification of manmade fibres citing example of each.
- 3. Write a short note on three types of finishing imparted to a fabric.
- 4. With the help of a suitable flow chart give the machinery requirement for producing 40^{s} N_e cotton yarn. Also state the object of mixing in yarn manufacturing process.
- 5. Write a comparative assessment of the properties of woven and knitted fabric. Also state a few application fields of nonwoven fabrics.
- 6. Enumerate the flow chart for printing of fabric. Also give the flow chart weaving preparatory process.

SECTION-C

- 7. Why trash removal from fibre is important? State the objects of each machine to produce a combed yarn from baled cotton.
- 8. a) Write a short note on entrepreneurial scopes for textile technologists.
 - b) Discuss the basic requirements of fibre forming polymers.
- 9. a) Give an estimate of weaving preparatory stages mentioning the objects of each.
 - b) Write a short note on polyester cotton blended fabric dyeing, giving detail of process sequence. Also give the justification of your answer.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.