

MANIPAL UNIVERSITY

EIGHTH SEMESTER B. DES. (FD) DEGREE EXAMINATION – MAY 2017

SUBJECT: ELECTIVE – TECHNICAL TEXTILES (BFD 404.3)

Wednesday, May 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 50

✍ Answer any FIVE complete questions.

1A. Discuss in brief the process and end uses utility of technical textiles.

1B. Explain the assurance of quality in technical textiles.

1C. What is protective textile? Give its classification and uses.

(3+3+4 = 10 marks)

2A. Explain Implantable and Non-Implantable materials used in medical textiles.

2B. Define Non-woven fabrics. State the advantages of Non-woven fabrics.

2C. What are geo-textiles? Enumerate the various fibers used for the area of geo-textiles.

(3+3+4 = 10 marks)

3. Write a short note on following:

3A. Smart Textiles

3B. Build-Tech

(5 marks × 2 = 10 marks)

4A. What are flame retardant textiles? Explain the importance of flame retardant materials along with its classifications.

4B. Explain in detail the properties of textile materials used in home textiles.

4C. Discuss the application of Agro-textiles with suitable examples.

(4+3+3 = 10 marks)

5A. Explain the broad classification of technical textiles.

5B. Elaborate the sketches with its components used in designing of protective clothing.

5C. Give reasons for maintain better environment with disposables.

5D. What are the requirements needed in clothing to climb high mountaineering?

(3+3+2+2 = 10 marks)

6. Write a short note on following fibers:

6A. Glass

6B. Jute

6C. PBI

6D. Basofill

6E. Dyneema

(2 marks × 5 = 10 marks)

