

Register Number: .....

**B.TECH DEGREE EXAMINATIONS APRIL 2011**

Sixth Semester

**TEXTILE TECHNOLOGY**

U07TT601: Computer Application in Textiles

**Time: Three hours**

**Maximum Marks: 100**

**Answer All Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Select the hardware from the following.  
a) MS-Word                      b) Linux                      c) MS-Office                      d) Monitor
2. What is the expansion of LAN  
a) Large Area Network                      b) Lean Area Network  
c) Local Area Network                      d) Least Area Network
3. Which of the following sensor is operating based on electro magnetic radiation?  
a) Photo conductive cell    b) Proximity sensor    c) Optical sensor    d) Photo active device
4. Which one of the following is used to measure rotation?  
a) Optical sensor    b) Pressure sensor    c) Limit switch                      d) Tachometer
5. Intel 8085 is a \_\_\_\_\_ bit micro processor.  
a) 4 bit                      b) 8 bit                      c) 16 bit                      d) 24 bit
6. BEN-TRONIC machine is related to which process in textiles?  
a) Carding                      b) Warping    c) Sizing                      d) Cone winding
7. FABRISCAN instrument is used for which of the following process?  
a) Fabric testing    b) Fabric inspection    c) fabric drape                      d) Weaving
8. Vibroscope is used to measure  
a) Fibre strength    b) Fibre length                      c) Fibre fineness                      d) Fibre Maturity
9. What is the expansion of ERP?  
a) Engineering Resource Planning    b) Element Resource Planning  
c) Enterprise Resource Planning    d) Entrepreneurship Resource Planning.
10. What is the speed of testing yarn samples in Uster Evenness tester?  
a) 10 m/min                      b) 40 m/min                      c) 400 m/min                      d) 1000 m/min

**PART B (10 x 2 = 20 Marks)**

11. List the different generations of electronic computers from the beginning to today.

12. What type of sensor is commonly used in an electronic yarn clearer?
13. List some of the details monitored by RING DATA.
14. What are the process parameters can be monitored online in blow room?
15. What are the key parameters controlled in sizing by micro controllers?
16. What do you mean by loom-eye and mill –eye systems?
17. List the fibre properties that are used to optimize cotton mixing cost by L.P. technique.
18. What fibre properties can the USTER HVI measure?
19. Mention any two field of robotics usage in textile industry.
20. What is the use of computers in integrated knitting machines?

**PART B (5 x 14 = 70 Marks)**

21. a) Discuss the basic architecture of a computer in detail with neat sketches.

**(OR)**

- b) What is DBMS? Classify different data bases & explain its application in textiles.

22. a) Write short notes on

(i) On line textile machine monitoring. (7)

(ii) Nep monitoring in cards. (7)

**(OR)**

- b) Describe the concept of auto levelling and explain the working of open and closed loop auto levellers in draw frame.

23. a) Explain the concept of computerized yarn clearing on modern winding machines.

**(OR)**

- b) Discuss the scope of application of computers to the process of textile chemical processing.

24. a) Write short notes on

(i) HVI (7)

(ii) Engineering fibre selection (EFS) (7)

**(OR)**

b) Describe the process of yarn quality evaluation and briefly outline the various computer systems that have been developed to assist this task.

25. a) Discuss in detail the use of computers to enhance finance, accounts and marketing in textile business.

**(OR)**

b) Explain in detail about MIS & ERP in Textiles.

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