

Register Number: .....

**B.TECH DEGREE EXAMINATIONS: APRIL/MAY 2012**

Sixth Semester

**TEXTILE TECHNOLOGY**

TTX114: Knitting Technology

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL Questions:-**

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

1. Cam track is \_\_\_\_\_ for needle butt
  - a) Guiding path
  - b) Holding part
  - c) Closing component
  - d) Moving Component
2. Which is the self acting needle
  - a) Spring beard needle
  - b) Latch needle
  - c) Compound Needle
  - d) Sinker Needle
3. Course density is influenced by
  - a) Yarn Count
  - b) Number of feeders
  - c) Stitch Length
  - d) Number of feeders
4. Loop length is influenced by \_\_\_\_\_ cam
  - a) Guard cam
  - b) Stitch cam
  - c) Clearing cam
  - d) Running cam
5. Knitted fabric having alternate face and back loop is known as
  - a) Single jersey
  - b) Rip
  - c) Purl
  - d) Interlock
6. The stitch which can not be produced by pattern drum is
  - a) Knit stitch
  - b) Miss stitch
  - c) Tuck stitch
  - d) Float stitch
7. In electronic needle selection the patterned information are transpired through.
  - a) Punched steel tape
  - b) Punched paper roll
  - c) Photosensitive film
  - d) UV sensitive film
8. Lateral displacement of the needle from one needle bed with respect to the other needle bed is called as \_\_\_\_\_
  - a) Gaiting
  - b) Plaiting
  - c) Racking
  - d) Laddering
9. Artificial Veins are made with
  - a) Weft knitted structure
  - b) Warp knitted structure
  - c) Flat knitted structure
  - d) Warp & weft-knitted structure
10. If the guide bar lapping is 0-0/3-3// means, identify the stitch
  - a) In-lay
  - b) Swiss rib
  - c) Accordion
  - d) Rib blister

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

11. What is stitch density?

12. List the merits and demerits of latch needles.
13. What is the function of stitch cam?
14. Give the needle gaiting for rib and interlock knitting machine.
15. What are the different methods of patterning in weft knitting?
16. List the derivatives of weft knit structures.
17. What are the classifications of warp knitting machines?
18. What is nesting of guide bars in warp knitting?
19. List the principle stitches of weft knitting machines
20. List any four applications of knit structure in technical textiles

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

21. a) Compare knitting and weaving with respect to manufacturing and fabric characteristics.

**(OR)**

- b) Discuss the knitting cycle of latch needle

22. a) Discuss the various knitting elements of a weft knitting machine with the function and importance of each component.

**(OR)**

- b) Explain the working of flat knitting machine.

23. a) Differentiate the characteristics of single jersey, rib and interlock knit structures

**(OR)**

- b) Discuss the various Pattern mechanism employed in weft knitting machine

24. a) Explain the knitting cycle of Tricot knitting machine.

**(OR)**

- b) Discuss the various knitting fabric defects, their causes and remedies to control.

25. a) Explain the manufacturing of seam less garment in terms of their advantages and production method

**(OR)**

- b) Discuss the application of knitted fabrics in technical textiles.

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