

B.TECH DEGREE EXAMINATIONS: MAY/JUNE 2013

Fifth Semester

TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)

FTY111: Knitted Fabric Manufacture And Structure

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Number of needles per inch is called as
 - a) Courses
 - b) Gauge
 - c) Wales
 - d) Tricks
2. -----needle requires additional element called presser to close the needle
 - a) Latch
 - b) Compound
 - c) Spring bearded
 - d) Double end
3. If a colored yarn is to be hidden from surface,-----stitch can be used
 - a) Knit
 - b) Float
 - c) Tuck
 - d) Purl
4. Le coste is an example for combination of
 - a) Knit & tuck stitches
 - b) Knit, tuck & float stitches
 - c) Knit & float stitches
 - d) Warp and weft knitting
5. The other r name of Half cardigan is
 - a) Polka
 - b) Le coste
 - c) Royal rib
 - d) Eight lock
6. -----is one of popular double jacquard structure
 - a) Blister
 - b) Swiss
 - c) Bird eye
 - d) Terry
7. Pressure bar is used only in ____ knitting machine
 - a) Tricot
 - b) Raschel
 - c) crochet
 - d) simplex
8. The length of fabric in inches produced for a set of 480 courses is called as -----of warp knitted fabric.
 - a) Run in ratio
 - b) Gauge
 - c) Quality
 - d) Fabric density

9. Structures that consist of two separately produced fabric layers which are joined back to back are
- | | |
|---------------------|-----------------|
| a) Compound fabrics | b) Composites |
| c) Spacer fabrics | d) Geo textiles |
10. Seamless means
- | | |
|--------------------------|---------------------------|
| a) Ready made | b) Less seams |
| c) No cutting and sewing | d) Less waste in knitting |

PART B (10 x 2 = 20 Marks)

11. Name the different cam plates that control the needle path
12. Why does purl knitting machine need two beds in the same plan?
13. Diagrammatically represent the knit, tuck and miss stitch with three feeder supply
14. What is accordion?
15. What do you mean by single blister and double blister?
16. Name the different structures obtained with interlock gating
17. What do you mean by open lap and closed lap?
18. Enlist the type of fabrics produced by Raschel Machines
19. What is Relaknit Technology?
20. State the special features of seamless knitting.

PART C (5 x 14 = 70 Marks)

21. a) Explain the loop forming sequence of compound needle
- (OR)**
- b) With neat diagram, explain the parts of circular knitting machine
22. a) Give symbolic and diagrammatic notation of knit fabric structure a) Single jersey
b) Rib c) Purl d) Interlock
- (OR)**
- b) Explain the structures of a) Milano Rib B) Double pique
23. a) Describe the knit structure a) Ponte-di-Roma b) Striped patterns
- (OR)**
- b) Describe the various weft knit Jacquard Structures

24. a) Describe the tricot knitting machine and explain the knitting cycle.

(OR)

b) With diagram, explain the principal stitches of warp knitting

25. a) Discuss about the latest developments in needle selection and electronics in weft knitting

(OR)

b) i) Point out the different applications of knit fabric in technical textiles (7)

ii) Give the Comparison between seamless knitting and normal knitting (7)
