



**GENERAL INSTRUCTIONS TO THE CANDIDATES**

1. Candidates are instructed to answer the questions as per Bloom's Taxonomy knowledge level (K<sub>1</sub> to K<sub>6</sub>)
2. Candidates are strictly instructed not to write anything in the question paper other than their roll number.
3. Candidates should search their pockets, desks and benches and handover to the Hall Superintendent/Invigilator if any paper, book or note which they may find therein as soon as they enter the examination hall.
4. Candidates are not permitted to bring electronic watches with memory, laptop computers, personal systems, walkie-talkie sets, paging devices, mobile phones, cameras, recording systems or any other gadget / device /object that would be of unfair assistance to him / her.
5. Corrective measures as per KCT examination policies will be imposed for malpractice in the hall like copying from any papers, books or notes and attempting to elicit the answer from neighbours.

**B.TECH DEGREE EXAMINATIONS: DEC 2015**

(Regulation 2014)

Third Semester

**FASHION TECHNOLOGY**

U14FTT302: Knitting Technology

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-  
PART A (10 x 1 = 10 Marks)**

1. Assertion (A): Rib fabrics are more stretchable in widthwise. CO2 [K<sub>2</sub>]  
Reason (R): Rib fabrics are interlocked with two rib structures.
 

|  |  |
|--|--|
| a) Both A & R are true and R is the correct explanation of A | b) Both A & R are true and R is not the correct explanation of A |
| c) A is true & R is false                                    | d) A is false & R is true  |
2. A Tuck stitch is represented by \_\_\_\_\_ CO2 [K<sub>2</sub>]

|                             |                             |
|-----------------------------|-----------------------------|
| a) <input type="checkbox"/> | b) <input type="checkbox"/> |
| c) <input type="checkbox"/> | d) <input type="checkbox"/> |
3. The widely used creel in knitting zone is \_\_\_\_\_ CO3 [K<sub>2</sub>]

|                      |                |
|----------------------|----------------|
| a) Rectangular creel | b) Combi creel |
|----------------------|----------------|



d)      ii      iii      i      iv

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

**(Answer not more than 40 words)**

- |  |     |                   |
|--|-----|-------------------|
| 11. Define stitch length and stitch density.   | CO1 | [K <sub>1</sub> ] |
| 12. Describe the role of sinkers used in knitting machines.  | CO1 | [K <sub>2</sub> ] |
| 13. Draw the diagrammatic representations of basic weft knitted stitches.  | CO2 | [K <sub>2</sub> ] |
| 14. Discuss the basic properties of rib knitted structures.  | CO2 | [K <sub>2</sub> ] |
| 15. Describe Blister fabrics.  | CO3 | [K <sub>2</sub> ] |
| 16. Analyse and find out the number of needles present in a 34 diameter machine of 24 Gauge circular knitting machine. | CO3 | [K <sub>4</sub> ] |
| 17. Define Run-in and Rack.  | CO4 | [K <sub>2</sub> ] |
| 18. Illustrate with neat sketch of Open Lap, Closed lap, Miss lap.   | CO4 | [K <sub>3</sub> ] |
| 19. Describe the basic needs of sportswear fabrics.  | CO5 | [K <sub>2</sub> ] |
| 20. Give the various application area of geo textiles.   | CO5 | [K <sub>2</sub> ] |

**Answer any FIVE Questions:-**

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

**(Answer not more than 300 words)**

**Q.No. 21 is Compulsory**

- |   |     |                   |
|---|-----|-------------------|
| 21. Discuss in detail about knitting action of latch and compound needles with necessary sketches?  | CO1 | [K <sub>2</sub> ] |
| 22. Explain in detail about the knitted fabrics defects, remedies and various developments take place in weft knitting machines.                    | CO2 | [K <sub>2</sub> ] |
| 23. (i) Analyse the Interlock gated structures Single Pique, Ponti-de-roma and Ottoman rib and Give the derivatives of purl structures. <b>(OR)</b> | CO3 | [K <sub>4</sub> ] |
| 24. Illustrate with neat diagram and explain Tricot warp knitting machine.  | CO4 | [K <sub>3</sub> ] |

25. Elaborate the application of weft knitted structures in Medical textiles and warp knitted fabrics in sports textiles. CO5 [K<sub>2</sub>]
26. (i) Explain the Geo textile materials and different structures used for geo textiles (8) CO5 [K<sub>2</sub>]  
and their applications. Give the role of knitted structures in agro textiles applications.
- (ii) Characterize the properties of single Jerrsey, rib, Interlock and purl structures. (6) CO2 [K<sub>2</sub>]

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