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Roll No

TX-702(A)-GS

B.E. VII Semester

Examination, December 2020

Grading System (GS)

Knitting Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Discuss the factors responsible for the growth of Knitting Technology.
b) Explain the difference between Knitting and weaving on technical ground.
2. a) Describe the functions of positive yarn feeder unit.
b) Calculate the production in yards per hour of knitting machine, if 690 needles, 25 rpm, 0.15" stitch length, 80% efficiency, 24 C.P.I. and 20's yarn count.
3. a) Discuss the single jersey cycle with diagram.
b) Describe the knitting elements of Double jersey knitting m/c.
4. a) Describe the knitting acting of latch needle.
b) State the advantages and disadvantages of Latch needle over beard needle.

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5.
 - a) Describe the five basic loops of warp knitting.
 - b) Write note.
 - i) Application of warp knitted fabric.
 - ii) Rack and Run-in ratio.
6. Derive the equation: $S = \frac{K_s}{l^2}$
7.
 - a) Describe the cycle of knitting operation for Rib-knit fabric.
 - b) If a 21 inch machine the yarn shrinkage ratio for a plain jersey is 2.72 and course per inch are 32 with 24^s cotton count. Calculate the weight per yards.
8. Write note on any two:
 - i) Jacquard knitting machine
 - ii) Defects in knitted fabric
 - iii) Pattern mechanism in warp knitting machine.
