



**Daffodil International University**  
**Faculty of Engineering**  
**Department of Textile Engineering**  
**Program: B.Sc. in Textile Engineering**  
**Semester Final Examination, Semester: Spring-2025**

**Course Code: 0723-215**  
**Time: 2 hours.**  
**Total Marks: 40**

**Course Title: Fabric Manufacturing I**  
**Course Teacher: FH**  
**Level-2, Term-1 (E1 & E2)**

**Answer all the Questions.**

- ✓ 01. Show the units of a slasher sizing machine with suitable sketch and explain the units. [06]  
[CO-2, PO-1, C/L-2]
- ✓ 02. Explain the sizing weaving curve and summarize the controlling points of sizing machine? [05]  
[CO-2, PO-1, C/L-2]
- ✓ 03. Compare weaving and knitting & show the advantages of knitting over weaving. [CO-2, [05]  
PO-1, C/L-2]
- ✓ 04. Measure the required (a) the weight of size material (b) size take up % (c) Count of sized yarn [06]  
for a weaving factory for an order weight of sized beam is 92.5 lbs. and the Beam have 1250  
yards yarn whose yarn count before sizing was 50 Ne, if total number of ends in the beam is  
3500. [CO-3, PO-2, C/L-5]
- ✓ 05. Explain the characteristic of single jersey fabric and show its end uses. [CO-2, PO-1, [04]  
C/L-2]
- ✓ 06. Illustrate the knitting action of the latch needle with suitable sketch. [CO-2, PO-1, C/L-2] [05]
- ✓ 07. a) Calculate the production per shift in kg of a plain single jersey knitting machine of 32-inch [03+02]  
diameter, 28 gauge, having 90 feeders and 2.80 mm stitch length produced by 36/1's and the  
machine operates in 24 RPM (Assume another parameter if necessary).  
b) Calculate total number of needles of the machine from the above data. [CO-3, PO-2,  
C/L-5]
08. Interpret "24 Gauge" and explain the needle specifications: Vota78.60G.02. [CO-2, [04]  
PO-1, C/L-2]