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Daffodil International University
Faculty of Engineering
Department of Textile Engineering
Program: B.Sc. in Textile Engineering
Midterm Examination, Semester: Summer-2026

Course Code: 0723-225 | **Course Title: Yarn Manufacturing-II**
Credit Hours: 3.0 | **Total Marks: 25**
Time: 1.5 hours.
Name & Designation of the Examiner: Md. Mashud Raihan (MR), Assistant Professor
Date and Time of the exam: 27.12.2026, 2:00 PM

[All questions in a set must be answered together]

Set-A

1. Answer any **Four (4)** of the following **Five** (a to e) *[CO-1, PO-1, C/L-2]* 4×4= 16

a) Explain the technical data and recent developments of Super Lap Former.
b) Briefly describe the faults and causes of comber machine and finally mention three major points to overcome these faults.
c) Explain why required number of machine passage is used between carding and comber.
d) Illustrate a timing diagram with respect to the index wheel in the combing machine.
e) Explain an appropriate measurement of adjusting noil percentage and explain with a necessary diagram.

Set-B

2. Answer all the questions *[CO-2, PO-2, C/L-3]* 4.5x2=9

a) Find out the total number of comber machines for 5 tons per day whose parameters are given: feed/nip=5.6mm, nip/min=380, sliver weight- 70 grain/yard, lap weight=1120grain/yds, no. of doubling=8, efficiency=91%, noil%=13.
b) A Super lap former running with the following parameters. Find out the draft & production per shift in pounds. Assume that,
No. of creel = 3, Winding speed = 125 yds/min, sliver hank is 0.12 Ne, Lap weight =1100 grain /yd, Doubling =11 cans/creel, Efficiency =88%