ourdiu.com | Shared by Gazi Hasnain Ahamed

Form number: OBE/TE/Fall-2025

Daffodil International University
Faculty of Engineering
Department of Textile Engineering
Program: B.Sc. in Textile Engineering
Midterm Examination, Semester: Fall-2025

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: 23.10.2025, 2:00 PM

Answer all the questions

1. Answer any **five (5)** of the following **Six (a to f)** *[CO-1, PO-2, C/L-2]* 5×4 = 20

a) **Relate** the equation with increasing bobbin dia, bobbin speed will be decreases by mentioning their principles.
b) **Describe** the purpose of using a roving frame before a ring frame and **explain** its importance with a suitable example.
c) **Summarize** the recent developments in roving frame technology and **explain** their impact on the spinning process.
d) **Demonstrate** the principles of Servo Motor Drives for Drafting Rollers, and Flyers Work in a Speed Frame
e) **Explain** the working principle and procedure of Auto-Doffing System.
f) **Summarize** material faults, their causes and corrective solutions for the simplex machine.

2. Answer the question *[CO-4, PO-2, C/L-3]* 5
a) **Calculate** the production in kg per day of 10 modern speed frame machines whose parameters are given below- Flyer speed 1160 rpm, no. of flyer 115, roving count 0.96 Ne, TM 1.3, and efficiency 94%.