

Fifth Semester
Textile Technology
Scheme OCBC 2019
SPINNING - II

Time : Three Hours

Maximum Marks : 70

Note : All 7 Questions are **Compulsory**. Internal choices has been given in each LO (Learning Outcome)

Q.	LO	Questions	Marks
1.	LO1	What is T.F.O.? With a neat sketch explain the passage of material through a T.F.O.	10
	LO2	OR What are the objects of Ring twister? Sketch and describe the passage of material through a Ring Twister.	10
2.	LO3	Mention the features of latest Rieter's B/R line. How does it differ from conventional B/R with reference to its construction and working?	10
	LO4	OR What is an autoleveller? Explain the principle of open loop and closed loop control system of autolevelling.	10
3.	LO5	What is Roving Stop Motion? Where it is used? Sketch and explain its working.	10
	LO6	OR Process control in spinning is an aid to produce quality yarn. Explain.	10

Q.	LO	Questions	Marks
4.	LO7	What do you mean by O.E. spinning? Sketch and explain the principle of yarn formation in O.E. (roter) spinning process. How does it differ from Ring spinning.	10
	LO8	OR If the rotor speed is 45,000 r.p.m. and a yarn of 25 Ne is produced with a twist factor of 4.5 then calculate the yarn delivery rate and production / unit in pounds / hour.	10
5.	LO9	With neat sketch explain the principle of air jet spinning.	10
	LO10	OR With the help of a neat and labelled diagram describe the passage of material through a friction spinning machine.	10
6.	LO2	What weight of each count will be required if 40s and 60s cotton yarn are doubled to produce 100 pounds of yarn?	10
	LO4	OR What is dedusting machine? Where it is used? Sketch and describe its working.	10
7.	LO9	With a neat sketch explain the working of Air Jet Spinning Machine.	10
	LO1	OR In a T.F.O. if the spindle speed is 10000 r.p.m. and yarn count is $2/30^s$ then calculate the production / spindle / 8 hrs. in gram having T.P.I. = 16 and efficiency 9.5%.	10

