Fourth Semester
Textile Technology
Scheme OCBC 2019
SPINNING - I

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 are the objects of Draw Frame sketch and describe the passage of material through a modern Draw Frame.	10
		OR	
	LO2	Mention the causes of faults in a Draw Frame sliver and give remedies.	10
2.	LO3	What are the objects of Ribbon lap machine? Sketch and explain the working of Ribbon lap machine.	10
		OR	
	LO4	What is an index number? How the timings of a comber is regulated by these numbers? Explain.	10
3.	LO5	What do you understand by differential motion? With neat sketch describe any one you think suitable.	10
		OR	
	LO6	Discuss the various drafting system that are used to process synthetic fibre on Speed Frame.	10
4.	LO7	Describe the objects of using cots and apron in ring frame. What are their required properties? Explain?	10

Q.	LO	Questions	Marks
		OR	
	LO8	Discuss the various causes of end breaks in Ring Frame.	10
5.	LO9	The front roller speed of a Draw Frame is 1960 r.p.m. and its diameter is 38 mm. The tension draft is 1.03. Calculate the production machine of 2 deliveries for 8 hrs with 80% efficiency and producing 0.13 hank of sliver.	10
		OR	
	LO10	In a ring frame if front roller speed for 30^s count is 400"/min find the production/spindle/shift in ounce and in gms.	10
6.	LO9	The hank meter reading record on a section of Speed Frame show an average of 6.4 hanks/ shift of 8 hrs at 88% efficiency. If front roller diameter is 1", find the r.p.m.	10
		OR	
	LO10	A Ring Frame is having 360 spindles and runs at 11000 r.p.m. and produces 50^s yarn with 4.0 T.M. What is the production/shift of 8 hrs in kg. with 88% efficiency?	10
7.	LO7	Discuss the significance of anti wedge ring and elliptical traveller in a Ring Frame.	10
		OR	
	LO5	In a Speed Frame explain with sketches how building motion alters the position of cone drum belt on the cone drum.	10