Seat No.:	Enrolment No	_
	GUJARAT TECHNOLOGICAL UNIVERSITY	
	BE - SEMESTER-V(New) • EXAMINATION - WINTER 2016	

Subject Code:2152908 Date:17/11/2016

Subject Name: Weaving Technology-II

Time:10:30 AM to 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1		Short Questions	14
C	1	State the object of picking motion.	
	2	Define open shed.	
	3	Define eccentricity in sley motion.	
	4	State the names of different parts of picking tappet.	
	5	State the object of beat-up motion.	
	6	Objects of let-off motion ?	
	7	Define DIVIDEND in take-up motion.	
	8	Dobby is a picking device. True or False?	
	9	A right hand dobby is one that is placed at the left hand	
	10	A negative dobby activates the heald frames in both	
	11	reed mechanism acts due to the swell in the box.	
	12	weft fork motion acts for every pick.	
	13	State any two advantages of warp stop motion.	
0.2	14	State purpose of box motion in loom.	0.2
Q.2	(a)	Calculate the production of plain power loom in meters/shift if the speed is 140 rpm and working with 78	03
		% efficiency. Assume picks/inch of 52.	
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(6)	working of negative tappet shedding motion in detail.	04
	(c)	With the help of neat diagram, discuss working of Eccle's	07
	(-)	drop box motion.	
		OR	
	(c)	With the help of neat diagram, discuss in detail about	07
		Electronic dobby.	
Q.3	(a)	• •	03
	(b)	With the help of neat diagram, explain the mechanism	04
	()	used to let-off warp sheet during the process of weaving.	0.7
	(c)	Compare over pick with under pick mechanism. With the	07
		help of neat diagram, explain the over pick mechanism in detail.	
		OR	
Q.3	(a)		03
V. 0	(4)	motion with the help of neat diagram.	
	(b)	1	04
	` /	mechanism in detail.	
	(c)	With the help of neat diagram, explain 7-wheel take-up	07
		motion in detail. Also, explain the method of calculating	
		Dividend of the said motion.	
Q.4	(a)		03
	<i>(</i> -).	in detail.	0.4
	(b)	With the help of neat diagram, explain top roller heald	04

		reversing motion in detail.	
	(c)	State and explain the steps involved in designing a	07
		shedding tappet for ½ twill weave.	
		OR	
Q.4	(a)	Explain about Ring Temple.	03
	(b)	Discuss need for temples in a loom. How instalment of	04
		temple is beneficial during cloth formation?	
	(c)	Draw Loose reed mechanism. Discuss setting of parts	07
		during normal working and shuttle trap.	
Q.5	(a)	Explain about Drop wires.	03
	(b)	With neat sketch, show Vibrator bar type warp stop motion.	04
	(c)	Show side weft fork motion with suitable diagram. Also explain working of it during Presence of weft and Absence	07
		OR	
Q.5	(a)	Give classification of dobby systems.	03
	(b)	Make comparison of Tappet and Dobby shedding.	04
	(c)	With neat sketch, explain construction and working of Climax dobby.	07
