Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V (NEW) EXAMINATION – SUMMER 2019

Subject Code: 2152908 Date: 20/06/2019

Subject Name:Weaving Technology-II

Time: 02:30 PM TO 05:00 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	**(a)**	Give classification sheds.	**03**
	(b)	Explain different methods of mounting of shedding tappets.	**04**
	(c)	State the objects of beat up motion. With the help of neat diagram, explain the beat up motion in detail.	**07**
Q.2	**(a)**	State the importance of eccentricity in sley motion.	**03**
	(b)	State and explain some of the faulty shedding operations.	**04**
	(c)	Explain some of the factors influencing the movement of shuttle during picking motion in detail.	**07**
		OR	
	(c)	State the objects of let-off mechanism, With the help of neat diagram, explain the principle of working of negative let-off mechanism in detail.	**07**
Q.3	**(a)**	State the objects of take up motion.	**03**
	(b)	State and explain some of the important settings of cone-over picking motion.	**04**
	(c)	With the help of neat diagram, explain the principle of working of 7 wheel take up motion in detail. Also, state some of the important settings of take up motion.	**07**
		OR	
Q.3	**(a)**	Compare bottom stationary close shed with centre close shed.	**03**
	(b)	Explain the method of calculating eccentricity in sley motion.	**04**
	(c)	With the help of neat diagram, explain any one multiple box motion iin detail.	**07**
Q.4	**(a)**	State the objects of auxiliary motions.	**03**
	(b)	Compare pick-at-will motion with pick & pick motion.	**04**
	(c)	With the help of neat diagram, explain the principle of working of fast reed motion in detail.	**07**
		OR	
Q.4	**(a)**	Explain the principle of working of electronic dobby.	**03**
	(b)	Give classification of dobbies.	**04**
	(c)	With the help of neat diagram, explain the principle of working of cross border dobby in detail.	**07**
Q.5	**(a)**	State the object of warp protector motion.	**03**
	(b)	Calculate the efficiency of weaving machine if the speed is 135 rpm and inserting 52 picks/inch and producing 30 metres/shift of fabrics during a shift of 8 hours..	**04**
	(c)	With the help of neat diagram, explain the principle of working of side weft fork motion in detail.	**07**
		OR	
Q.5	**(a)**	State some of the importance steps for designing of tappet used for shedding operation.	**03**
	(b)	State and explain the principle of working of warp stop motion.	**04**
	(c)	State and explain some of the important settings of climax dobby in detail.	**07**