Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V (NEW) EXAMINATION – WINTER 2018

Subject Code:2152908 Date:11/12/2018

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	**(a)**	Calculate the loom production in meters per shift of 8 hours, if loom runs at 180 ppm with 80% efficiency. The cloth contains 24 picks/cm.	**03**
	(b)	Draw a neat sketch of passage of yarn and cloth through the loom.	**04**
	(c)	Discuss in detail about shedding mechanism with a neat sketch.	**07**
Q.2	**(a)**	Explain loom timing with diagram with respect to shuttle, picker and healds.	**03**
	(b)	Give the function of temple and back rest.	**04**
	(c)	Discuss in detail about construction & working of cam/tappet dobby with a neat sketch.	**07**
		OR	
	(c)	Describe the construction & working of loose reed motion with a neat sketch.	**07**
Q.3	**(a)**	Give a formula for power required for picking.	**03**
	(b)	Explain semi-open and bottom close sheds.	**04**
	(c)	Give the construction and working of cone over pick motion.	**07**
		OR	
Q.3	**(a)**	Give functions of selvedge.	**03**
	(b)	Explain the function of check strap and box swell.	**04**
	(c)	Discuss about the construction and working of Beat-up motion.	**07**
Q.4	**(a)**	Give classification of looms.	**03**
	(b)	Prove that Dividend of 7 wheel take up motion is nearly 1.	**04**
	(c)	Explain the construction and working of side weft fork mechanism.	**07**
		OR	
Q.4	**(a)**	Give the difference between 7 wheel and 5 wheel take-up motion.	**03**
	(b)	Compare loose reed and fast reed motions.	**04**
	(c)	Draw only a neat sketch of Eccles drop box mechanism with name of the parts.	**07**
Q.5	**(a)**	State the objects of Let-off motion.	**03**
	(b)	How the box leveling device operates in drop-box mechanism?	**04**
	(c)	Explain the construction and working of pick-at-will motion.	**07**
		OR	
Q.5	**(a)**	What is the role of lag-lattice in dobby?	**03**
	(b)	Explain the functions of picker and reed.	**04**
	(c)	Give the construction and working of mechanical type warp stop motion with a neat sketch.	**07**

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