

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 in 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