Enrolment No.

Total Marks: 70

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION - SUMMER 2017 Date: 29/04/2017

Subject Code: 2172902

Subject Name: Modern Weaving Technolgy

Time: 02.30 PM to 05.00 PM

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Explain and Compare beat-up mechanism of Projectile loom with that of **Q.1** (a) 07 ordinary shuttle loom. Explain various types of weft supply packages used on shuttleless looms and **(b)** 07 their requirements. Q.2 (a) Give classification of Rapier looms. 04 Explain with neat diagram principle of working of flexible double rapier tip **(b)** 10 transfer weft insertion system. OR
 - **(b)** Discuss in detail with the help of neat diagrams different types of Selvedges 10 formed on shuttleless looms.

Q.3 (a)	State the advantages of Multiphase	loom over single phase loom.	04
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With the help of neat diagram, explain the beat-up mechanism of M8300 **(b)** 10 Multiphase loom in detail.

		OR	
Q.3	(a)	State the importance of weft tensioners used on shuttleless looms.	04
	(b)	With the help of neat diagram explain different stages of operation of circulation of gripper on Projectile weaving machine in detail.	10
Q.4	(a)	Discuss in detail the principle & benefits of Wet-in-wet (wet size sow box).	06
-	(b)	Discuss in detail the traverse aids for maintaining air flow in Air Jet weaving.	08
0.4	(a)	Highlight the innovations in the area of Beam drive in Warping machine.	08
V 11	(b)	What are the limitations of Water jet looms?	06
Q.5	(a)	Discuss in detail the functional characteristics of modern air-jet weaving machines.	10
	(b)	Discuss pre-requisites of Water Jet Loom.	04
		OR	

Q.5 Discuss the essential requirements for successful air jet weft insertion. 10 (a) Write in brief about Propack in relation with Autoconer winding machine. **(b)** 04
