Q.1   Answer the following questions.
A) Fill in the blanks. (1 mark each)  
1. ..........looms is not suitable for very weak yarn. (Projectile, Rapier)  
2. On ..........Jet loom more than one nozzles are used. (Air, Water)  
3. ...........loom creates less noise. (Shuttle, Shuttleless)  
4. On ..........loom all the filling yarns are inserted from the same side of the loom. (Projectile, Rapier)  
5. Flexible rapier tape is made up of ..........with reinforced Carbon fibres. (Rubber, Plastic)  
6. The means of weft insertion in projectile is called as .......... (Gripper, Jet)  
7. In Gabler system ..........transfer of yarn takes place. (Loop, tip to tip)  
8. Fabric width on air jet loom is ..........than rapier and projectile. (wider, narrower)  
9. In ..........jet loom only one nozzle is use to insert weft into shed. (Water, air)  
10. The use of microprocessor ..........the manual work in loom shed. (reduces, increases)  

B) State true or false. (1 mark each)  
1. Actual production of a machine is always less than that calculated production.  
2. Picking element of rapier loom is smaller than projectile loom.  
3. Jet loom has more production capacity than projectile and rapier loom.  
4. Picking force in water jet loom is depending upon Nozzle shape and cross-section.  
5. Water jet loom is suitable for producing synthetic fabric only.  
6. Repeated loom stoppage decrease the efficiency of loom.  
7. Shuttle flying out is the main issue in shuttle less loom.  
8. Only synthetic yarns can work on shuttle less loom.  
9. Relay nozzle in air jet loom are use to avoid buckling of yarn.  
10. Shuttle loom gives more production than shuttle less loom.  

Q.2.   Answer the following questions.  
1. State the requisite for successful installation of shuttle less weaving.
Q.3. Answer the following questions.
1. State the advantages of shuttle less loom over shuttle loom.
2. Explain 10-point system of fabric inspection with example.

Q.4. Answer the following questions.
1. List down the various types of defect found in woven fabric.
2. What are the control measures to maintain the quality of the fabric at loom state?
3. State the factors that are responsible to increase the loom efficiency.

Q.5. Answer the following questions.
1. Explain the picking mechanism of Water jet loom machine.
2. Differentiate between Rapier and Projectile loom.
3. List down the factors affecting pneumatic weft propulsion in Air jet loom.

Q.6. Answer the following questions.
1. State the advantages of Water jet loom machine.
2. Explain the working of feeding mechanism on Projectile loom.
3. State the reasons for the weft tension variation in Rapier loom.

Q.7. Answer the following questions.
1. What are the benefits of monitoring and control of weaving machines by Microprocessor?
2. Explain the weaving principle of Air jet loom with passage diagram.

Q.8. Answer the following questions.
1. State the main features of Projectile loom.
2. List down the main parts of Air jet loom. State the function of any three of it.
3. Explain Rapier picking mechanism with the help of diagram.