Q1 a Discuss the process and quality control steps involved in dyeing of silk using arm dyeing machine.  
   b State the differences between Quality Control and Process Control Techniques in Textile wet processing.  

Q2 a Describe the estimation of ash content in cotton fibres.  
   b Discuss the method of finding colour fastness to rubbing.  

Q3 a Describe the method of determining the flammability of cotton textiles.  
   b Give an account of relaxation and molecular shrinkage in textiles with one example in each case.  

Q4 a Write a note on 'Barium Activity and its estimation'.  
   b Describe the determination of acid groups using methylene blue absorption method.  

   b What is photochromism? Discuss the light fastness properties of dyed cotton textiles.  

Q6 a Write a note on estimation of Spin finish in polyester fibres.  
   b Discuss 'Implementation of QMS ISO 9001 in a processing unit'.  

Q7 Discuss the Restricted Chemical List (RSL) and Restriction of use of hazardous chemicals (ROHS) with reference to Textile Wet processing.  

Q8 a Discuss 'Implementation of EMS ISO 14001 in a processing unit'  
   b Discuss the equipments needed to estimate eco parameters in textiles.