# PROCESS AND QUALITY MANAGEMENT IN WET PROCESSING

**Date:** 28.12.2015  
**Marks:** 100  
**Time:** 2 pm to 5 pm  

**Instructions:**  
1. Attempt six questions out of which Q1 is compulsory.  
2. Answer each next question on new page.  
3. Figure to the right indicate full marks.  
4. Illustrate your answers with sketches and flow chart wherever necessary.  
5. Use of non-programmable electronic pocket calculator permissible.  
6. Mobile and any other communication devices are not allowed in exam hall.  
7. Assume suitable data wherever necessary.

<table>
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<tr>
<th>Question (Q)</th>
<th>Description</th>
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| Q1           | a. State various eco parameters considered for textiles to accredit them as ecofriendly.  
               b. Write a note on different instruments used for measuring various Eco-Parameters related to textiles. | 10    |
| Q2           | a. Describe process control and quality control in wet processing.  
               b. Discuss the quality control tests to be carried out in dyeing. | 08    |
| Q3           | a. Give an account of estimation of total wax content by Soxhlet extract method.  
               b. What is copper number? Describe determination of cuprammonium fluidity. | 08    |
| Q4           | a. Discuss the determination of light fastness using Xenon Arc lamp.  
               b. Describe determination of washing fastness of a dyed cotton fabric. | 08    |
| Q5           | a. Give an account determination of crease recovery angle (CRA) of a resin treated cotton fabric.  
               b. Discuss the method of estimation of residual formaldehyde in resin treated cotton fabric. | 08    |
| Q6           | a. Explain identification of cotton and silk fibres by microscopic method.  
               b. Discuss evaluation of efficiency of wetting agent by sinking time method. | 08    |
| Q7           | Discuss evaluation of purity of dyes by test dyeing and using spectrophotometer. | 16    |
Q8  a. Give an account of computer colour matching system.

b. State the advantages and limitations of CCM system.

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