THE TEXTILE ASSOCIATION (INDIA)
GMTA (REVISED) EXAMINATION – 2016
SECTION – D PAPER – D.3
WET PROCESSING – PRINTING & FINISHING

Date: 25.12.2016 Marks: 100 Time: 02.00 pm to 05.00 pm

Instructions:
1. Attempt any Six questions out of which Q.1 is Compulsory
2. Answer each next question on new page
3. Figures to the right indicate full marks
4. Illustrate your answers with neat sketches & flow charts wherever necessary
5. Use of non-programmable electronic pocket calculator is permissible
6. Mobile and any other communication devices are not allowed in the Examination hall

I. Match the following by choosing correct option

<table>
<thead>
<tr>
<th>1. Urea</th>
<th>(a) Removal of ground colour</th>
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<tbody>
<tr>
<td>2. Discharge style</td>
<td>(b) Aroma</td>
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<tr>
<td>3. Steam ager</td>
<td>(c) Hygroscopic agent</td>
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<tr>
<td>4. Batik printing</td>
<td>(d) Fixing of print colour</td>
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<td>5. Sandalwood</td>
<td>(e) Resist style</td>
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<td>6. Felt calendaring</td>
<td>(f) Roller printing</td>
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<td>7. Rating for light fastness</td>
<td>(g) Epsom and gypsum salt</td>
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<tr>
<td>8. Doctor blade</td>
<td>(h) 1 to 5</td>
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<tr>
<td>9. Rating for wash fastness</td>
<td>(i) temporary finish of silk</td>
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<tr>
<td>10. Weighting of silk</td>
<td>(j) 1 to 8</td>
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</table>

II. Define printing. How printing is different from dyeing? Explain direct, resist and discharge style of printing with suitable examples.

III. Explain the block making process. List the advantages and disadvantages of block printing.

IV. Explain direct style of printing in detail with flow diagram along with use and role of chemicals in it. Also explain different activities of printing.

V. List the temporary and permanent finish preferred for cotton and silk fabrics, which are the common finishes preferred for natural and synthetic fabrics.

VI. Explain discharge style of printing. How white discharge different from colour discharge? What is the roof non discharge colors in color discharge printing?
VII. How is dimensional stability achieved in fabric finishing? Explain physical, mechanical and chemical finish you prefer for cotton fabrics.

VIII. What are the advantages of digital printing over other methods? Explain drop on demand principle in digital printing.