THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A (REVISED) EXAMINATION --2014
SECTION- B PAPER- B-5
TEXTILE TESTING

Date: 28.12.2014       Marks-100       Time:-2.00 PM to 5.00 PM

Instructions: 1. Attempt six questions out of which question no 1 is compulsory
2. Answer each next main question on new page
3. Figure to the right indicate full marks
4. Illustrate your answer 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

Q1. Give to the point answer to the following questions (20)

(a) What is oven dry weight?
(b) State the difference between textile testing and quality control
(c) Define specific surface area of fibre
(d) What is span length
(e) Define grab strength of fabric
(f) Convert 30 Ne to tex count.
(g) What is air permeability
(h) What is standard atmospheric condition in our country?
(i) Define heat of wetting of textile fibre
(j) Name confirmatory test of polyester and viscose fibre

Q2. (a) Explain the sampling technique of cotton fibre by zoning method. (08)
(b) Define Moisture regain and Moisture content of textile fibre. Establish the relationship between them. (08)

Q3. (a) What is maturity ratio? How you will measure the maturity ratio by NaOH solution method? (08)
(b) Describe the working of HVI? What are the properties of fibre can be measured by HVI? (08)

Q4. (a) Define the following yarn numbering system (08)
(i) English count (ii) Tex (iii) denier (iv) metric count
(b) Explain the measurement of yarn count by auto sorter

Q5. (a) What are the differences between yarn imperfection and yarn fault? Explain the Yarn classmate fault
(b) Explain the measurement of single yarn twist by a suitable method with neat sketch

Q6. (a) Define drape co-efficient? How you will measure the drapeability of a fabric
(b) Distinguish between crease and wrinkle. How you will measure the crease recovery of a fabric by using Shirley crease recovery tester

Q7. Differentiate between the following
(a) Air permeability and air resistance
(b) Water proof and water repellence
(c) Tear strength and bursting strength
(d) Grab test and strip test

Q8. Write short note on the following
(a) AFIS
(b) Factors affecting yarn hairiness
(c) Pilling resistance
(d) Washing fastness

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