THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. (REVISED) EXAMINATION — 2013
SECTION-B PAPER-V (B-5)

TEXTILE TESTING

Date: 27.12.2013 Marks : 100 Time: 2 to 5 pm

Instructions:
1. Attempt six questions out of which Q.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.

Q.1. a. Give brief answers to the following questions : (20)
i. What is the need of sampling ?
ii. State the warning limit and action limit of a control chart
iii. What is the minimum and maximum limits of maturity ratio of cotton fibre
iv. What is staple length of fibre?
v. Define trash percentage
vi. Convert 1.5 denier to tex count.
vii. What is CSP ?
viii. What is GSM of fabric?
ix. What is crease recovery?
x. Name confirmatory solvent of nylon and acrylic fibre

Q.2. a. State the factors affecting the sampling technique? And also explain random sample and bias sample. (08)
b. Define Moisture regain and Moisture content of textile fibre. Establish the relationship between them. (08)

Q.3. a. Distinguish between staple length, mean length, effective length and span length of fibre. (08)
b. What is fineness of fibre? Describe the air flow method for measuring the fineness of fibre. (08)

Q.4. a. What are the causes and effects of hairiness? Explain in details. (08)
b. Explain the various system of yarn numbering. (08)

Q.5. a. How the single yarn twist can be measured by using straightening method? (08)
b. Write down the effect of twist on yarn and fabric properties. (08)

Q.6. Distinguish between the following : (16)
i. Crease recovery and wrinkle Recovery
ii. Maturity ratio and uniformity ratio
iii. air permeability and air resistance
iv. Tensile strength and bursting strength


Q.8. Write short note on the following : (16)
i. Drape
ii. HVI
iii. Rubbing fastness
iv. Yarn classmate faults

$$$$$$