THE TEXTILE ASSOCIATION (INDIA)  
G.M.T.A (REVISED) PART –II EXAMINATION-2014  
SECTION-D PAPER D-6  
SPECIALTY & HIGH PERFORMANCE YARNS  

Date: 29.12.2014 Marks: 100 Time: 2.00pm to 5 pm  

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

Q.1  
a. Explain the concept of specialty yarns and give an account of comparison with conventional yarn (10)  
b. Explain the need for texturing of yarn and discuss their characteristics (10)  

Q.2  
a. Discuss the manufacture of sewing threads and explain briefly their properties (10)  

Q.3  
a. Give an account manufacture of fancy yarns. (08)  
b. Explain methods of producing mélange yarn. (08)  

Q.4  
a. Explain the properties of bulked and textured yarn. (08)  
b. Describe principle of stuffer box crimping in the manufacture of bulked yarn. (08)
Q.5
a. Discuss the manufacture of non-thermoplastic textured yarn.  
   (08)
b. Describe briefly different equipments used for texturing of polyester textured yarn  
   (08)

Q.6 Explain the following:  
(16)
   i. Knit de-knit technique
   ii. Binding twines
   iii. Core spun yarn   
   iv. Marine Ropes

Q.7
a. Explain the requirements of Hosiery yarns for sports socks and casual wears.  
   (08)
b. Discuss the yarn quality requirements for manufacture of crepe bandages and super soft towel piles.  
   (08)

Q.8 Explain the following:  
(15)
   i. Production of core spun yarn
   ii. Braiding
   iii. Mock Chenille Yarn
   iv. Yarns for bullet proof vests