THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A (REVISED) EXAMINATION -2018
SECTION A PAPER –A.2
ENGINEERING CHEMISTRY

Date: 23.12.2018  Marks: 100  Time:10.00 a. m. to 01.00 p.m

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

Q1  Attempt any five
   a. Define surface active agents. What are its types?
   b. Explain the solar energy as renewable energy source.
   c. What is cloud point, pour point?
   d. What is the chemical composition of cement?
   e. Give the characteristics of insulating material

Q2  a  What are Carbohydrates? Explain the manufacture of starch.  8
    b  Compare between thermosetting and thermoplastics.  8

Q3  a  Define alloys. Give its classification. Explain the use and composition of stainless steel.  8
    b  Compare between thermosetting and thermoplastics.  8

Q4  a  Explain the types of proteins.  8
    b  What are lubricants? Give its classification and properties.  8

Q5  a  Explain any two methods for removal of permanent hard water.  8
    b  Write short note on dry and wet corrosion.  8

Q6  a  Explain action of enzymes on starch .Give properties of starch paste.  16
    b  Compare between addition and condensation polymerization.  8

Q7  a  Explain the EDTA method for estimation of hard water  8
    b  Give the classification of surfactant.  8

Q8  a  Explain the manufacturing of wet cement.  8

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    b Give the classification of surafactant.