THE TEXTILE ASSOCIATION (INDIA)

G.M.T.A (REVISED) EXAMINATION -
SECTION A PAPER - A.2
ENGINEERING CHEMISTRY

Date: 22.12.2019       Marks: 100       Time: 10.00 a. m. to 01.00 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 Attempt any five. 20

a. Explain Caustic embrittlement.
b. Give comparison between natural and synthetic rubber.
c. Define: Flash point and Fire Point.
d. Give characteristics of insulating material.
e. Enlist the factors affecting dry corrosion.

Q2 a) What are Proteins? What are its types? Explain denaturing of proteins. 8
b) Give the reaction for preparation of polyester. Give its characteristics and uses. 8

Q3a) Define corrosion. Give the factors affecting corrosion. 8
b) Explain the classification of fuels. 8

Q4a) Explain the composition and properties of cellulose. 8
b) What are the causes and disadvantages of priming. 8

Q5a) Define fuels. Give its classification.
b) Explain the renewable energy source Wind and solar. 8

Q6) Explain action of enzymes on starch. Give properties of starch paste. 16

Q7)
a) Explain Sedimentation and filtration. 8
b) What are surfactants? Give its classification. 8

Q8) a) Explain the manufacturing and chemical properties of Bakelite. 8

B Explain the treatment of water by lime soda process. 8

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