

Scheme – I
Sample Question Paper

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fourth

Course Title : Environmental Technologies in Textile Processing

Max. Marks : 70

22466

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

10 Marks

- a) List the various eco system problems.
- b) Define 'pollution'.
- c) List the sources of noise in textile industry.
- d) Name the pollutants added in water in desizing process.
- e) State the acceptable values of COD for textile effluent to be released in natural water resources.
- f) List the chemicals required for determination of chloride content in water.
- g) Name the various primary treatments given to the textile waste water.

Q.2) Attempt any THREE of the following.

12 Marks

- a) Explain the cause and effect of global warming on marine ecosystem.
- b) Describe following types of plum characters. 1) fanning 2) looping
- c) Describe the procedure of determining total solids present in desizing waste.
- d) Differentiate between physical and chemical methods of testing textile effluent with suitable examples.

Q.3) Attempt any THREE of the following.

12 Marks

- a) Explain the causes of ozone layer depletion.
- b) Suggest the remedies to reduce noise generated by jigger and stenter machine.
- c) Predict the ill-effects of textile pollutants added in water on human health.

d) Explain the purpose of setting ETP plant in textile industry.

Q.4) Attempt any THREE of the following.

12 Marks

- a) Explain the mechanism of neutralization process in primary treatments given to textile waste water.
- b) Identify the physical and chemical methods of estimating impurities in scouring waste water.
- c) Describe the procedure of determining chloride content in given textile waste water.
- d) Compare the role of various primary treatments given to the textile waste water.
- e) Predict the change occurring in textile effluent after primary and secondary treatment.

Q.5) Attempt any TWO of the following.

12 Marks

- a) Identify the chemicals released by textile processes which are responsible for global warming. Express it in a tabular form.
- b) Identify the pollutants added in air by various textile processes. Suggest the remedies for reducing the same.
- c) Bleaching of cotton is carried using sodium hypochloride. Identify the pollutants added in waste water after treatment. Describe the procedure for determination of the most deviated water quality parameter in this process.

Q.6) Attempt any TWO of the following.

12 Marks

- a) Identify the toxic chemicals added in environment during textile processing. Express it in tabular form.
- b) Vat dyes are insoluble in water. They are made soluble in alkaline reduced condition. Identify the pollutants added in water after dyeing. Suggest the procedure for estimating the quality parameter which is highly deviated from standard norms after dyeing.
- c) Identify the types of impurities separated in sedimentation and chemical coagulation process. Suggest the reagents used for chemical coagulation. Illustrate your answer with suitable labeled diagram.

Scheme – I
Sample Test Paper - I

Program Name : Diploma in Textile Technology
Program Code : TC
Semester : Fourth
Course Title : Environmental Technologies in Textile Processing
Max. Marks : 20

22466

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a) Define the term “Ozone layer depletion”.
- b) List the factors responsible for de-forestation
- c) Write the purpose of ISO 14000 series.
- d) Define ‘Plume’
- e) Define ‘air pollution’.
- f) List the sources of noise in textile industry.

Q.2 Attempt any THREE.

12 Marks

- a) Explain the effects of deforestation on different eco-systems.
- b) State the effect of toxic chemicals used in dyeing process.
- c) Explain trapping and looping plume character.
- d) Describe the procedure of measuring noise using noise meter.

Scheme – I
Sample Test Paper - II

Program Name : Diploma in Textile Technology

Program Code : TC

Semester : Fourth

Course Title : Environmental Technologies in Textile Processing

Max. Marks : 20

22466

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

08 Marks

- a) List the water quality parameters which are highly deviated from standard values in scouring process.
- b) State the quality norms of textile effluent to be released in natural resources.
- c) List the physical parameters of textile effluent which are determined in testing.
- d) Name the chemicals used in determination of COD of textile effluent.
- e) Draw an outline of basic design of ETP plant.
- f) State the role of activated sludge process in waste water treatment.

Q.2 Attempt any THREE.

12 Marks

- a) Describe the procedure of determining dissolved oxygen in textile waste water.
- b) State the acceptable values of quality parameters of desizing waste water.
- c) Describe the method of determining hardness of combined effluent.
- d) Explain the role of modern methods in waste water treatment.