

Scheme – I

Sample Question Paper

Programme Name : Diploma in Textile Manufacture

Programme Code : TX

Semester : Third

Course Title : Elements of Wet Processing

Marks : 70

22367

Time : 3 Hours

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) Define the term 'Pretreatment' of textiles
- b) Draw neat sketch of Jigger machine
- c) List any two dyeing machines to dye cotton fabric
- d) State any four properties of Disperse dyes
- e) State objective of printing process
- f) List 'Styles' of printing
- g) State two object of finishing process

Q.2) Attempt any THREE of the following.

12 Marks

- a) Explain Enzyme desizing process with recipe and processing conditions
- b) Compare any four points of batchwise and continuous method of bleaching
- c) Describe dyeing of cotton fabric with vat dyes by exhaust method
- d) Explain functions of any four printing ingredients

Q.3) Attempt any THREE of the following.

12 Marks

- a) Describe procedure for scouring of cotton fabric in vertical pressure kier
- b) Describe dyeing of cotton fabric with Hot brand reactive dyes
- c) Explain with flow chart preparatory processes of acrylic fibres

- d) Explain dyeing mechanism of nylon with acid dyes.

Q.4) Attempt any THREE of the following.

12 Marks

- a) Make use of metal complex dyes to dye nylon fabric
- b) Describe dyeing of polyester fabric by H.T.H.P. dyeing method
- c) Explain mechanism of pigment printing
- d) Classify Dyes used in textile industry
- e) Describe mechanism of resin finishing

Q.5) Attempt any TWO of the following.

12 Marks

- a) Justify H.T.H.P. method for polyester dyeing is preferred in industry than Carrier dyeing
- b) Explain the importance of LOI and its relation with thermal behavior of textiles
- c) Justify the mechanism of direct style, discharge style and resist style of printing

Q.6) Attempt any TWO of the following.

12 Marks

- a) Justify with a neat labeled diagram, the various effects achieved by using raising machine.
- b) Justify the importance of various squeeze systems used in screen printing machines from color coverage and screen mesh point of view.
- c) Compare any four points of different chemical class of softeners

Scheme – I

Sample Test Paper - I

Programme Name : Diploma in Textile Manufacture

Programme Code : TX

Semester : Third

Course Title : Elements of Wet Processing

Marks : 20

22367

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) State objects of Bleaching process
- b) State elements of four point system
- c) State four bleaching agents used for textiles
- d) List four machines used for bleaching.
- e) State any four properties of vat dyes
- f) State any four properties of reactive dyes

Q.2 Attempt any THREE.

12 Marks

- a) Describe the construction and working with neat labeled diagram of four cutter shearing and cropping machine
- b) Describe procedure for scouring of cotton fabric in vertical pressure kier
- c) Use sodium chlorite and describe process to discolour pigments present in fabric
- d) Select and justify pretreatment process to increase the dimensional stability of polyester fabric.
- e) Calculate quantity of dye, salt and water required for dyeing 125 kg of cotton fabric on jigger dyeing machine to produce 2.1 % shade by maintaining MLR 1:8 and 40 gpl salt concentration.
- f) Make use of any four aftertreatments to improve fastness properties of direct dyed goods

Scheme – I

Sample Test Paper - II

Programme Name : Diploma in Textile Manufacture

Programme Code : TX

Semester : Third

Course Title : Elements of Wet Processing

Marks : 20

22367

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) Name any two types of dyes used to dye nylon fabric
- b) State any two properties of acid dyes
- c) State any four printing ingredients
- d) Name machines used for printing
- e) Define L.O.I.
- f) State functions of stenter machine

Q.2 Attempt any THREE.

12 Marks

- a) Make use of metal complex dyes to dye nylon fabric
- b) Compare batchwise and continuous method of dyeing with respect to their advantages and limitations for two lots A and B of fabric 150kg and 5000kg respectively
- c) Sketch labelled diagram and describe working of flat bed printing machine
- d) Explain 'styles' of printing
- e) Describe with neat sketch decatizing process
- f) Describe mechanism of wash-n-wear finish