

- Q.19 Write down the process of scouring of cotton fabric.
- Q.20 Draw the line diagram of which dyeing machine and explain its working.
- Q.21 What is fastness property of dyed material? Name various fastness properties.
- Q.22 Which machine is used to dye the polyester material? Explain briefly.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Which types of impurities are present in wool material? Explain the carbonization and bleaching of wool fibres.
- Q.24 Explain the dyeing process of cotton fabric with vat dye in detail.
- Q.25 Define desizing process. How many types of desizing is done? Explain enzymatic desizing.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Cheapest dye used for cotton fabric is _____
a) direct b) basic
c) disperse d) reactive
- Q.2 Desizing removes only _____ material.
a) oil and wax b) dust and dirt
c) size d) fibres
- Q.3 What is the pH range for acids?
a) 0-7 b) 7-10
c) 10-14 d) 0-14

Q.4 _____ is a exhausting agent is used in direct dye.

- a) NaCl
- b) NaoH
- c) HCL
- d) H₂SO₄

Q.5 Following is named as universal bleaching agent.

- a) bleaching powder
- b) H₂O₂
- c) NaOCL₂
- d) baking soda

Q.6 _____ is an example of strong alkali.

- a) Fe(OH)₃
- b) NH₃
- c) Zn(OH)₂
- d) NaOH

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 _____ singeing is the best method of singeing.
(Roller/Gas)

Q.8 Which dyes have best fastness properties for cotton fabric? (Direct/Vat)

Q.9 _____ are removed in scouring. (Oil, fat, wax, /starch)

Q.10 Which desizing is ecofriendly ? (Acid steep / Enzymatic)

Q.11 In mercerization _____ are improved. (luster and strength/ weight and whiteness)

Q.12 Reactive dye is water _____ (soluble/insoluble)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write a short note on 'Impurities in Cotton'.

Q.14 What changes are found in fabric after mercerization?

Q.15 What is the role of electrolyte (Nacl) in direct and reactive dye?

Q.16 How cotton is dyed with direct dye?

Q.17 Write down the sizing ingredients used for cotton sizing.

Q.18 How bleaching powder is prepared? Explain complete process?