



Q.4 \_\_\_\_\_ is an exhausting agent used in direct dye.

- a) NaCl                      b) NaOH  
c) HCl                      d) H<sub>2</sub>SO<sub>4</sub>

Q.5 Following is named as universal bleaching agent.

- a) bleaching powder    b) H<sub>2</sub>O<sub>2</sub>  
c) NaOCl                  d) baking soda

Q.6 \_\_\_\_\_ is an example of strong alkali.

- a) Fe(OH)<sub>3</sub>                  b) NH<sub>3</sub>  
c) Zn(OH)<sub>2</sub>                  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?