

questions out of three questions. (2x8=16)

No. of Printed Pages : 4

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Roll No. ....

- Q.23 Discuss sustainability issues in current textile production and suggest their remedies ?
- Q.24 Define enzyme. Discuss their source, types and application mechanism ?
- Q.25 Explain supercritical Co<sub>2</sub> dyeing with the help of a diagram ?

Time : 3 Hrs.

M.M. : 60

**6th Sem / Textile Processing**  
**Subject : Sustainable Textile Wet Processing**

**SECTION-A**

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

Q.1 \_\_\_\_\_ enzyme is used in bio-polishing ?

- a) Amylase
- b) Pectinase
- c) Xylanase
- d) Cellulase

Q.2 \_\_\_\_\_ is the source of chromium contamination in ETP ?

- a) Metal complex dyes
- b) Direct dye
- c) Reactive dye
- d) All

Q.3 Following is a type of banned dye ?

- a) Indigo
- b) Nitroso
- c) Anthaquinone
- d) Azo

(60)

(4)

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(1)

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Q.4 Enzyme can strip from substrate?

- a) Cellulase
  - b) Peroxidase
  - c) Ketonase
  - d) Amylase

Q.5 \_\_\_\_\_ causes high BOD ?

- a) Desizing
  - b) Dyeing
  - c) Bleaching
  - d) Boiling

Q.6 What gases can be used in sustainable pretreatments?

- a) Chlorine
  - b) Ozone
  - c) Nitrogen
  - d) Oxygen

## **SECTION-C**

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

**Q.13 Explain the of triple bottom line ?**

Q.14 Enlist various harmful substances used in textile industry?

**Q.15** Write a note on ozone assisted pretreatments ?

**Q.16 Explain the role of recycling in enzymes in wet processing?**

**Q.17** Write any four advantages of enzymes in wet processing?

**Q.18 Discuss about the concept of salt free dyeing ?**

**Q.19** What is the use of plasma technology in textile processing?

**Q.20** What are alternate ways to reduce water load in processing?

**Q.21** Discuss the E-control in textile chemical processing?

**Q.22 How to achieve zero discharge in wet processing ?**

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two