



Mavinay

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Supplementary Examination – June/July 2021

II Semester

Batch : 2018 Batch

Major : Textiles and Apparel Designing

Time : 3 Hours

Max.Marks : 100

18BTDI02-DSE -II Chemistry Theory for Textiles and Clothing

PART – A

Circle the correct answer

10 X 1=10

1. The hybridization involved in Methane is
a. sp b. sp^2 c. dsp^2 d. sp^3
2. The valency of 'C' is
a. 2 b. 6 c. 3 d. 4
3. Acids and alkalies are an example of
a. Corrosive chemicals b. volatile chemicals c. Flammable chemicals d. Anti-oxidants
4. The concentration of the solutions are expressed in
a. Molarity b. Molality c. Normality d. Mole-fractions
5. The backbone of organic compounds are made up of
a. Carbon b. Oxygen c. Nitrogen d. fluorine
6. An example for chromospheres is
a. OH b. NO_2 c. CH_4 d. CO_2
7. Indigo is an
a. direct dye b. azo dye c. acid dye d. vat dye
8. Which one of the following is an example of proteinicfibres
a. Cellulose acetate b. Wool c. Nitrocellulose d. Orlon
9. Dyeing belongs to the classification of
a. Fibreproduction b. Dry processes c. Weaving d. Wet processes
10. Which one of the following is used in cleaning glassware?
a. chromic acid b. sodium c. oxalic acid d. HCl

PART- B

Answer the following

5x6=30

Answer should not exceed 400 words or two pages

11. a. List out the corrosive and carcinogenic chemicals.
(or)
- 11.b. Enumerate the safety methods in handling glassware

12. a. Briefly analyze the Ionic bond

(or)

12. b. Illustrate Aufbau principle.

13. a. Give the difference between natural and synthetic fiber.

(or)

13. b. Describe the structure and uses of polyamide, polyester

14. a. Write a note on biopolishing

(or)

14. b. Mention briefly about the nature and type of bonds present in silk

15. a. Illustrate any fine physical properties of Fiber

(or)

15. b. Enumerate the uses of Teflon

PART- C

Answer the following

5x12=60

Answer should not exceed 800 words or four pages

16. a. What are the steps to be taken in the storage and handling of chemicals in the laboratory?

(or)

16. b. Write notes on principle of titrimetric analysis of acid-base and redox titrations

17.a. Explain the hybridization and geometry of sp^3 , sp^2 , sp

(or)

17. b. Discuss the Covalent bond and Coordinate bond

18. a. Give the classification dyes.

(or)

18. b. Detail about the theories of dye color.

19. a. Write a note on Synthetic fibres.

(or)

19. b. Discuss the fine structure and properties of cotton

20.a. Discuss about the types of bleaches used in bleaches used in textile industry.

(or)

20. b. How does P^H , temperature and substrate concentration affect the enzyme activity?
