

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – COSTUME DESIGN AND FASHION

ADVANCED TEXTILE SCIENCE

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which kind of fibre Flax is?
(i) Cellulosic fibre (ii) Bast fibre
(iii) Vegetable fibre (iv) All of these
- 2 Which spinning system is/are used to produce viscose rayon?
(i) Melt (ii) Dry
(iii) Wet (iv) All of these
- 3 Which monomer(s) is/are used to produce Nylon 6 fibre?
(i) Caprolactum (ii) Hexamethylene diamine & Adipic acid
(iii) Acrylonitrile (iv) Ethylene glycol & Terephthalic acid
- 4 Which among the following yarn is the strongest?
(i) Ring spun yarn (ii) Airjet yarn
(iii) Rotor spun yarn (iv) Bobtex yarn
- 5 In which spinning system, tension differences between fibers is smaller due to the elimination of the spinning triangle?
(i) Friction (ii) Airjet
(iii) Compact (iv) Twistless

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Discuss the characteristics required for fibre forming polymer.
OR
b. Analyze the various systems of wool grading.
- 7 a. Illustrate the properties of cellulose acetate fibre.
OR
b. Sketch the differences between viscose and tencel.
- 8 a. State the properties of elastomeric fibres.
OR
b. Discuss the production of Nylon 6, 6 fibres.
- 9 a. State the different types of cover yarns.
OR
b. classify yarns.
- 10 a. Discuss about high bulk yarns.
OR
b. Explain about advantages of texturing process.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Classify fibres based on source.
OR
b. Assess types of silk fibre and its properties.
- 12 a. Enumerate about different spinning systems.
OR
b. Appraise the manufacturing process of viscose fibre.
- 13 a. Elucidate the manufacturing of polyester fibre.
OR
b. Determine the properties of polyolefin fibres.
- 14 a. Interpret the process flow of ring spun yarn production.
OR
b. Compare ring spun and OE spinning systems.
- 15 a. Evaluate the advantages of compact spinning.
OR
b. Criticize the Properties of Friction Spun Yarns.

Z-Z-Z

END