

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch – COSTUME DESIGN & 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 Cotton fibre has _____ of crystalline region.
(i) 30% (ii) 40%
(iii) 70% (iv) 95%
- 2 Tencel is the brand name of _____ fibres.
(i) Lyocell (ii) Bamboo
(iii) Modal (iv) Viscose
- 3 Monomer used for producing Nylon 6 fibre is
(i) HMD & AA (ii) Acrylonitrile
(iii) Caprolactum (iv) EG & TA
- 4 Rotor speed in OE spinning is around _____ rpm
(i) 10000 (ii) 20000
(iii) 50000 (iv) 100000
- 5 In air jet spun yarn, core fibres have _____ twist.
(i) low (ii) High
(iii) moderate (iv) no

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Discuss about the types of wool fibres.
OR
b Explain the merits and demerits of manmade fibres.
- 7 a Explain about "Regenerated fibres" with examples.
OR
b Discuss about the properties of Bamboo fibres
- 8 a State the applications of Nylon fibres.
OR
b Discuss about high bulk yarns.
- 9 a Explain about the properties required for sewing yarns.
OR
b Discuss about TFO
- 10 a Discuss about self-twist spinning.
OR
b Explain about quality air jet spun yarn.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Interpret the influence of crystalline and amorphous region on the fibre properties.
OR
b. Categorize the types of protein fibres and its properties.
- 12 a. Discuss about the production of Modal fibres.
OR
b. Explain about the manufacture of soy fibres.
- 13 a. Analyse the influence of texturization on the properties of yarns.
OR
b. Interpret the advantages of spandex fibres and its applications.
- 14 a. Compare the advantages of OE yarn over ring spun yarns.
OR
b. Recommend the properties required for industrial yarns.
- 15 a. Assess the benefits of compact yarns.
OR
b. Elucidate the merits of adhesive process.

Z-Z-Z

END