

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2019
(First Semester)**

Branch - COSTUME DESIGN & FASHION

FIBRE & YARN MANUFACTURING

T Three Hours Maximum: 75 Marks

SECTION-A (10 Marks!)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 What is mineral fibre?
(i) Polyester (ii) Nylon
(iii) Polyamide (iv) Glass
 - 2 Which leaves are feeded by silk worms?
(i) Neem (ii) Mulberry
(iii) Plantain (iv) Dry
 - 3 Identify the process in regeneration of fibres.
(i) Thermal (ii) Physical
(iii) Chemical (iv) Thermostatic
 - 4 Name the chemical used in manufacture of viscose rayon.
(i) Caustic soda (ii) Calcium carbonate
(iii) Magnesium (iv) Hydrochloric acid
 - 5 Identify the spinning method in Wet, Dry and Melt Spinning.
(i) Chemical (ii) Functional
(iii) Mechanical (iv) Decorative
 - 6 What is induced in Texturing process?
(i) Coils (ii) Crimp
(iii) Zigzag shaping (iv) All the above
 - 7 Find the process that removes more short hairs and makes fibres more parallel.
(i) Combing (ii) Twisting
(iii) Roving (iv) Doubling
 - 8 Choose the process by which natural fibres are sorted and straightened.
(i) Combing (ii) Grading
(iii) Ginning (iv) Carding
 - 9 Name the process of combined or condensed combed silver to the slubber of a series.
(i) Ginning (ii) Twisting
(iii) Roving (iv) Combing
- State the continuation o the roving of the combed silver or fibres,
(i) Spinning (ii) Twisting
(iii) Doubling (iv) Opening

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a Explain about the manufacturing process and properties of cotton fibre.
OR
b Describe the physical and chemical properties of textile fibres.
- 12 a Analyze the chemical properties of Ardil fibres.
OR
b What are regenerated fibres? Explain their types, properties and uses.
- 13 a Explain in detail about the wet and dry spinning process.
OR
b Summarize the properties and uses of Acrylic.
- 14 a Explain about the objectives of Blow room.
OR
b Sketch and explain drawing.
- 15 a State Fancy yams.
OR
b Narrate the Drafting process.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Summarise the classification of textile fibres.
- 17 Discuss about the manufacturing process and properties of Viscose rayon.
- 18 Analyze the manufacturing process and properties of nylon fibre.
- 19 Explain about carding and combing process with neat diagram.
- 20 Highlight the steps involved in Rotor spinning process? Explain each step.

Z-Z-Z

END