

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 How medical clothing use special fabrics in below areas?

- a) Therapeutic clothing uses.
- b) Health care / hygiene

Q.24 Explain various type of clothing for special needs?

Q.25 Attempt any two parts:

- a) Uses of conductive fibers
- b) Benefits of smart textile
- c) Passive smart textile

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5th Sem / Fashion Design

Subject : Smart Textiles

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 A physical hazard that might require protective clothing is_____.

- a) Toxic fumes
- b) Loud noise
- c) Extreme heat
- d) Infectious disease

Q.2 Which is not necessarily a quality of smart textile?

- a) Sense & respond
- b) always have electronic component
- c) used in healthcare
- d) made of woven fabric only

Q.3 _____ fabric resist water penetration.

- a) Tightly woven Polyester
- b) Rayon
- c) Cotton
- d) Silk

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- Q.4 _____ fiber is known as artificial silk
- a) Rayon b) Cotton
c) Linen d) Jute
- Q.5 _____ are capable of measuring temperature.
- a) Fiber sensors b) fabric cables
c) fiber cables d) Woolen fibers
- Q.6 Which of the following is not a type of respiratory protection?
- a) N95 mask b) Surgical mask
c) Respirator d) Safety glass

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 List one protective gear for fire fighters.
- Q.8 Mention one advantage of Geo textile.
- Q.9 List one Medical textile.
- Q.10 Smart textile have _____ components(electronic /artificial)
- Q.11 One use of moisture wicking.
- Q.12 Write one use of UV protective clothing.

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SECTION-C

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

- Q.13 What are the key challenges in the manufacturing of smart textile?
- Q.14 What are the different conductive material used in smart textile?
- Q.15 What are the key design feature of functional clothing?
- Q.16 What are the properties of specialty fibers?
- Q.17 What are the benefits of wearing functional clothing in different situation?
- Q.18 How do construction and fabric affects performance of athletic wear?
- Q.19 Explain the importance of special fabrics in medical clothing.
- Q.20 How does special clothing helps people with disabilities?
- Q.21 Which fabrics are best suited for sportwear discuss.
- Q.22 What are the potential benefits of using smart textiles?

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