

B.TECH., DEGREE EXAMINATIONS: NOV/DEC 2012

Seventh Semester

TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)

FTY211 : Functional Clothing

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Ergonomic means _____
 - a) mechanical characteristics of human being
 - b) inspired by natural phenomenon
 - c) study of external influences
 - d) Science of work
2. _____ Pressure garments are classified under
 - a) Therapeutic protective garments
 - b) Bio-sensing garments
 - c) Injury protective garments
 - d) BCR protective garments
3. _____ is a soft tissue implant
 - a) hernia repair
 - b) heart valve
 - c) dental implant
 - d) wipes
4. _____ could be either a woven or braided porous meshes or tapes Surrounded by a silicone sheath
 - a) Artificial ligament
 - b) artificial cartilage
 - c) Artificial tendon
 - d) orthopedic implants
5. Fibers having an LOI value of _____ have the lowest fire protection characteristics
 - a) 25
 - b) 65
 - c) 55
 - d) 90
6. This fiber is stronger than steel by ten times and used in ballistic protection
 - a) Twaron
 - b) Dyneema
 - c) Spectra
 - d) Kevlar
7. The seams in a football are made of _____ fibers
 - a) Polyester
 - b) Kevlar
 - c) Poly uerethane
 - d) Poly propylene
8. _____ combines both lightweight and durability increasing both power and control of the tennis racket making it 5 times stronger than aluminium
 - a) Kevlar
 - b) Graphite
 - c) Carbon
 - d) Polyester

23. a) Explore the materials used, requirements and functions of Flame resistant protective clothing

(OR)

b) Explore the materials used, requirements and functions of mechanical protective clothing

24. a) Investigate the various textile applications to achieve the quality requirements of sports wear clothing

(OR)

b) Outline the various aspects considered to improve the functionality of sports footwear

25. a) Enumerate the various properties and applications of photo adaptive fibers and chameleon fibers

(OR)

b) Elaborate on the various properties and applications of phase change materials and shape memory polymers
