

Test 2 Review:

1. The most widely used fiber worldwide is:
 - a. Polyester
2. Viscose rayon is used in fashionable wearing apparel and sportswear because...
 - a. It has good drape and low stiffness
3. Type of rayon with its description
 - a. Viscose – regular rayon named after the manufacturing process
 - b. Lyocell – a solvent spun rayon fiber with high fibrillation
 - c. Cupro – a rayon fiber with silk-like appearance and feel
4. Typical end use for rayon:
 - a. Fashionable wearing apparel
5. Which type of rayon is called the Green Fiber?
 - a. Lyocell
6. Typical end use for acetate:
 - a. Linings
7. The raw material for acetate and triacetate is:
 - a. Wood pulp
8. At a wedding, acetate would be most likely found in:
 - a. The groom's tux lapels
 - b. The bridesmaids shoes
 - c. Floral ribbons
9. Acetate and triacetate are derivative cellulose fibers - that is they have been esterified to modify behavior and properties. What is the major property modification these cellulose fibers undergo?
 - a. Acetate and triacetate become thermoplastic
10. What do both nylon and aramid fibers incorporate in their polymer chains to provide strength?
 - a. Aromatic rings
11. Nylon is the dominant fiber in...
 - a. Carpet
12. Nylon has lost some end uses to polyester because...
 - a. It is more expensive
13. Nylon was the first synthetic fiber, produced by Dupont in 1938. What was the first use of nylon fiber?
 - a. Stockings
14. Aramid fibers retain all of the following properties:
 - a. High thermal stability
 - b. High modulus
 - c. High strength
15. What are the two basic types of aramid fibers?
 - a. Meta-aramid
 - b. Para-aramid
16. What are the two basic types of nylon fibers?

- a. Nylon 6
 - b. Nylon 6,6
17. What synthetic fibers would you use to construct a rope?
- a. Olefin
 - b. Polyester
 - c. Nylon
18. Aramid fibers are all used in:
- a. Safety gloves
 - b. Hockey sticks
 - c. Bullet proof vests
 - d. Lab coats
 - e. Cables
19. Polyester is a widely used synthetic fiber because it is...
- a. Cheaper than nylon
 - b. Easier to dye than olefin
 - c. Stronger than acrylic
20. PLA is:
- a. Made from corn
 - b. Low melting
 - c. Biodegradable
21. Recycled polyester is usually made from...
- a. Soda bottles
22. Acrylic and modacrylic are similar, but modacrylic is...
- a. Flame resistant
23. Typical end use for acrylic:
- a. Socks
24. Acrylic is a low cost substitute for which fiber?
- a. Wool
25. Polypropylene is used in active wear products because of...
- a. Good wicking qualities
26. Fake fur and fun fur are usually made from which fiber?
- a. Modacrylic
27. Spandex is usually used in garments...
- a. At around 2-25%
28. Spandex is used with nylon in swimwear for the following reasons:
- a. Spandex is dyeable with the same dyes as nylon
 - b. Spandex is not affected by seawater
 - c. Spandex provides protection against sunlight
29. Carbon fibers are most often used in...
- a. Reinforcing material in plastic composites
30. Metallic fibers are most often used in...
- a. Aerospace and industrial applications
31. Texturizing is carried out in order to...
- a. Make filaments feel more like staples
32. Texturizing methods:
- a. False twist

- b. Stuffer box
 - c. Air jet
33. Two important yarn properties that are related to appearance
- a. Denier
 - b. Shape
34. Ring spinning is...
- a. Produces bulkier yarns than open end spinning
35. Yarns made from wool in a process that includes combing are called:
- a. Worsted
36. Yarns made from cotton in a process that does not include combing are called:
- a. Carded
37. Hot fluid jet texturizing is used mainly for which end use product?
- a. Carpets
38. Only thermoplastic fibers can be thermo-mechanically textured
39. Fibers can be made from films via a slit film or a split film process
40. Rayon has a lower degree of polymerization than cotton