Assignment Zero

Due on 2020-01-27, 23:39 IST.

The following two questions are of multiple choice type. For each question, you will get one mark if you select the correct answer and zero mark of no marks or writing anything incorrect.

1. The fiber form of fluid or solid water is
   a) Cotton
   b) Nylon
   c) Polyester
   d) Polypropylene

   No, the answer is incorrect.
   Answer: d) Polypropylene
   Correct Answer: d) Polypropylene

2. A skein of 1 kg of cotton yarn weighs 1 by (its count in tw) is approximately
   a) 16
   b) 24
   c) 36
   d) 48

   No, the answer is incorrect.
   Answer: c) 36
   Correct Answer: c) 36

3. The packing density (dimensionless) of a yarn with 65% porosity is
   a) 0.2
   b) 0.4
   c) 0.6
   d) 0.8

   No, the answer is incorrect.
   Answer: c) 0.6
   Correct Answer: c) 0.6

4. The unit of hank multiplier of yarn is
   a) [dimensionless]
   b) yard
   c) meter
   d) kilometer

   No, the answer is incorrect.
   Correct Answer: c) meter

5. The following expression is valid for one cotton yarn whose packing density (dimensionless) is
   a) 0.6
   b) 0.8
   c) 0.4
   d) 0.2

   No, the answer is incorrect.
   Correct Answer: c) 0.4

6. The mean number of fibers in the cross-section of a sliver of tex mean count, proposed from fibers of true mean linear density, is
   a) less than 1 tex
   b) equal to 1tex
   c) equal to 0.7 tex
   d) equal to 0.5 tex

   No, the answer is incorrect.
   Correct Answer: b) equal to 1tex

7. The coefficient of variation of weight per unit length of a cotton silver is often expressed as follows
   a) %
   b) %/tex
   c) %tex
   d) %/Unit tex

   No, the answer is incorrect.
   Correct Answer: a) %

8. CV of weight per unit length (%tex) = (Square millimeter) of fiber in cross-section / (Square millimeter) of cross-section of sliver

   No, the answer is incorrect.
   Correct Answer: a) %

9. In case of ideal radial migration of fibers in yarn, the numerical value for fiber mean position is
   a) 0.25
   b) 0.50
   c) 0.75
   d) 1.0

   No, the answer is incorrect.
   Correct Answer: a) 0.25

10. With the increase of twist, the strength of yarn
    a) always increases
    b) always decreases
    c) first increases and then decreases
    d) first decreases and then increases

    No, the answer is incorrect.
    Correct Answer: c) first increases and then decreases

11. With the decrease of gauge length, the mean strength of yarn
    a) always increases
    b) always decreases
    c) first decreases and then increases
    d) first increases and then decreases

    No, the answer is incorrect.
    Correct Answer: c) first decreases and then increases

12. With the increase of twist, the strength of yarn
    a) always increases
    b) always decreases
    c) first increases and then decreases
    d) first increases and then decreases

    No, the answer is incorrect.
    Correct Answer: d) first increases and then decreases