

**Avinashilingam Institute for Home Science and Higher Education for Women  
[Deemed to be University] Coimbatore-641 043**

**Bachelor's Degree Examination – November 2018**

**III Semester**

**Class : II UG  
Major : Textiles and Apparel Designing**

**Time: 3 hours  
Max. Marks: 100**

**15BTDC13 Textiles Testing**

**Part-A**

**10 x 1=10**

**Choose the correct answer**

1. The approximate length of Indian cotton fibre (in inches) is  
a) 25                      b) 15                      c) 2                      d) 0.2
2. Select the fibre which has crimp appearance  
a) Cotton                      b) Wool                      c) Silk                      d) Rayon
3. Select the natural fibre contains both S and Z twist  
a) Polyester                      b) Silk                      c) Rayon                      d) Cotton
4. Pick up the fibre which is called as golden fibre in original form  
a) Jute                      b) Cotton                      c) Wool                      d) Silk
5. Choose the fibre which has the moisture content value as 6%.  
a) Silk                      b) Polyester                      c) Cotton                      d) Wool
6. Identify the fibre which is famous for its warmth character in winter  
a) Cotton                      b) Rayon                      c) Jute                      d) Wool
7. Select the fibre which shows high resistance for water absorbency  
a) Viscose rayon                      b) Polyester                      c) Cotton                      d) Silk
8. Indicate the fastness property which is tested by crock meter  
a) Rubbing                      b) Heat                      c) Light                      d) Wash
9. Identify the name in knitting process that is created by multiple loops of yarn  
a) Cords                      b) Stitches                      c) Threads                      d) Bundles
10. Select the knitted fabric which sinks easily  
a) Polypropylene                      b) Polyester                      c) Polyurethane                      d) Cotton

**Part B****Answer the following****Answer should not exceed 400 words or two pages**

- 11a. Justify with proper description regarding the importance of length of fibres.  
(or)
- 11b. Discuss about the fibre strength measurement using pressley tester.
- 12a. Discuss about the evaluation of yarns using direct systems.  
(or)
- 12b. Justify properly about the twist estimation of yarn using untwist method.
- 13a. Describe about the performance of tensile strength in woven cotton fabric.  
(or)
- 13b. With suitable description explain the importance of abrasion testing in woven fabric.
- 14a. Why watability test is considered as important in textile testing?  
(or)
- 14b. Describe the importance of wash fastness tests.
- 15a. Give a brief note on the performance of courses and wales in knitted fabric.  
(or)
- 15b. Describe capillary raise test with reference to knitted fabric.

**Part C**

5 x 12=60

**Answer the following****Answer should not exceed 800 words or four pages**

- 16a. Give a detailed description about the applications of bear sorter and digital fibrograph.  
(or)
- 16b. Explain the estimation of fibre maturity by swelling method.
- 17a. How can yarn diameter and yarn strength be determined?  
(or)
- 17b. Elaborate the importance of yarn evenness.
- 18a. Describe the method of measuring fabric thickness and fabric weight of woven fabric.  
(or)
- 18b. Describe the method of evaluating the drape and pilling properties of woven cotton fabric.
- 19a. Explain the means of calculating wicking and drop properties of a fabric.  
(or)
- 19b. Account for the method of determining the crocking properties of a fabric.
- 20a. Brief on the means of evaluating the colour fastness properties of a knitted fabric.  
(or)
- 20b. How can air permeability be tested for a knitted fabric.