Assignment 10

The due date for submitting this assignment has passed. Due on 2019-10-09, 23:59 IST.
As per our records you have not submitted this assignment.

1) The correct statement(s) amongst the following is/are

- [ ] Fibers with more deviation from round cross section have lower wettability
- [ ] Fibers with more deviation from round cross section have higher wettability
- [ ] Roughening the surface of the fabric increases the wetting angle
- [ ] Roughening the surface of the fabric decreases the wetting angle

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Fibers with more deviation from round cross section have higher wettability
- Roughening the surface of the fabric decreases the wetting angle

2) The correct statement(s) amongst the following is/are

- [ ] Fiber with higher shape factor has higher wettability
- [ ] Fiber with higher shape factor has lower contact angle
- [ ] Fiber with higher shape factor has higher wickability
- [ ] Fiber with higher shape factor has higher contact angle

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Fiber with higher shape factor has higher wettability
- Fiber with higher shape factor has lower contact angle
- Fiber with higher shape factor has higher wickability

3) The correct statement(s) amongst the following for fabric made from cotton is/are

- [ ] Cotton absorbs moisture and sweat well

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Cotton absorbs moisture and sweat well
Due to moisture absorption warmth is lost rapidly for cotton fabrics
Cotton fabric wicks liquid sweat quickly
Cotton fabric wicks liquid sweat slowly

No, the answer is incorrect.
Score: 0
Accepted Answers:
* Cotton absorbs moisture and sweat well
* Due to moisture absorption warmth is lost rapidly for cotton fabrics
* Cotton fabric wicks liquid sweat slowly

4) The correct statement(s) amongst the following is/are

- Wettability increases when surface tension decreases
- Wettability increases when surface tension increases
- Wettability increases when contact angle decreases
- Wettability increases when contact angle increases

No, the answer is incorrect.
Score: 0
Accepted Answers:
* Wettability increases when surface tension decreases
* Wettability increases when contact angle decreases

5) The incorrect statement amongst the following in the context of wettability is/are

- Wettability increases with decrease in temperature of the liquid
- Wettability increases with decrease in the diameter of the fibre
- Wettability increases with increase in the density and viscosity of the liquid
- Wettability increases with decrease in the surface roughness of the fabric

No, the answer is incorrect.
Score: 0
Accepted Answers:
* Wettability increases with decrease in temperature of the liquid
* Wettability increases with increase in the density and viscosity of the liquid
* Wettability increases with decrease in the surface roughness of the fabric

6) Which of the following fabric surface will have maximum qmax for the same fibre and yarn types?

- Plain Weave
- Matt weave
- Twill weave
- Sateen weave

No, the answer is incorrect.
Score: 0
Accepted Answers:
* Sateen weave

7) The temperature of air gap between two layers of fabrics

- Increases with the water vapour absorption rate of the fabric
- Increases when water vapour transmission does not take place
- Decreases with the water vapour absorption rate of the fabric
- Remains constant with the water vapour absorption rate of the fabric

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Increases with the water vapour absorption rate of the fabric*

8) Keeping the yarn count same, in which of the following cases the wickability will be more?  
1 point

- Fabrics made with
  - Fine flat multifilament yarns
  - Natural fibre yarns
  - Fine textured multifilament yarns
  - Coarse textured multifilament yarns

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Fine flat multifilament yarns*

9) The correct statement(s) amongst the following is/are  
1 point

- Hydrophilic fiber with stronger affinity to water molecules will give higher wickability
- Hydrophilic fiber with stronger affinity to water molecules will give lower wickability
- Yarn made up of fibers with circular diameter of normal denier shows higher wicking than the yarn made up of fibers with microdenier
- Yarn made up of fibers with circular diameter of normal denier shows lower wicking than the yarn made up of fibers with microdenier

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Hydrophilic fiber with stronger affinity to water molecules will give lower wickability*
*Yarn made up of fibers with circular diameter of normal denier shows lower wicking than the yarn made up of fibers with microdenier*

10) The correct statement(s) amongst the following is/are  
1 point

- Thicker and porous structure shows higher absorbency than thinner and compact structure
- Large pores lead to higher wickability
- Increase in packing coefficient yarn increases wickability
- Tortuosity of pores decreases wickability

No, the answer is incorrect.
Score: 0
Accepted Answers:
*Thicker and porous structure shows higher absorbency than thinner and compact structure*
*Increase in packing coefficient yarn increases wickability*
*Tortuosity of pores decreases wickability*