

JAYA GROUP OF INSTITUTIONS –THIRUNINRAVUR
4TH SEM SEM-B.E/B.Tech
INTERNAL ASSESMENT (MODEL EXAMINATION –II)

Subject Name : Characteristics of textile fibers II
Subject Code : TT6401
Duration : 180 minutes

Date : 7/03/2015
Branch: Textiles
Max.Marks:100

Part A (10X2=20) Answer all the Questions:

1. Define refractive index?
2. State the principle of measuring refractive index.
3. Define birefringence.
4. State the interference technique of measuring refractive index?
5. Define intrinsic birefringence.
6. What is dichroism and dichroic ratio?
7. State Amonton's law of friction?
8. State the "stick-slip" effect?
9. What is directional friction effect of wool.
10. What are the factors influencing friction?

Part – B

(5x16=80)

11. A) Explain in detail about the measurement of refractive index of fibre .

(OR)

B) Discuss about reflection and luster?

12. A) Explain in detail about measurement of birefringence.

(OR)

B) Explain the factors influencing birefringence.

13. A) Explain in detail about absorption and dichroism

(OR)

B) Discuss about the refractive index of the fibre.

14. A) Give detailed account of static and kinetic friction its measurement.

(OR)

B) Explain in detail frictional and surface characteristics of natural and synthetic fibres ?

15. A) Explain in detail about directional friction in wool?

(OR)

B) Explain in detail about friction and lubrication.