

Fiber Networks and Structures class

24.4.14

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30 points total, 6 points/question

1. What is the definition of paper formation and name 3 ways it can be controlled on a paper machine?
2. What is Mie scattering and how does it relate to pigment size?
3. What is foam forming and why could it have advantages over traditional forming techniques?
4. Draw a typical stress-strain curve for paper and use the diagram to explain how elastic modulus and tensile energy absorption are calculated?
5. Why is the wet strength of paper important for paper machine runnability and how can wet strength be measured?

