

Major Test TT L742
Theory and practice of Textile Finishing

28.11.06
3:30-5:30 PM
MM: 35

Q1. Discuss with examples:

- a) Requirements of a UV protective finish for textiles. (2)
- b) Steps to be taken for absolutely uniform application of a finish to textiles. (2)
- c) Two durable antimicrobial agents used on textiles and their applications (2)
- d) Chemistry and properties of a finish used for cross linking of cotton. (2)

Q2. a) Give the process of combustion of textiles. (3)
b) Describe the FR chemicals used and the mechanism of condensed phase and vapour phase FR agents. (3X2)

Q3. a) Discuss with examples the principle of repellency of textiles. Why do all oil repellent surfaces show water repellency but not *vice versa*. (3)
a) Discuss at least 3 approaches by which water repellent textiles can be produced. (3)

Q4. Explain

- a) Softeners can have positive as well as negative effect on the colour of polyester microfibre fabrics. (2)
- b) Cationics make the best softeners (2)
- c) The difference between a rot proofing finish and antimicrobial finish (2)

Q5. Write short notes on principle of: (2X2)

- a) Nano technology for self cleaning of fabrics
- b) Plasma applications on textiles

Q6. What is your opinion is the general trend in the field of textile finishing. In which direction is this field moving? Explain with some examples. (2)