Q.1. Attempt any five: (20)
   a. What are the ingredients present in printing paste?
   b. Explain dyes and pigments.
   c. What are steps involved in printing process?
   d. What are different types of finishing applied on natural fibres?
   e. What are objective of compacting?
   f. Classify finishing.

Q.2. (08)
   a. What is calendaring finish? Draw a diagram of 7 bowl calendaring machine.
   b. What is printing? Differentiate between dyeing and printing.

Q.3. (08)
   a. Explain softening? What are advantages of anionic softener? How we identify ionic nature of softener?
   b. What are different types of gums used in printing? Explain role of viscosity in printing paste.

Q.4. (08)
   a. What is wrinkle free finishing? Explain its principle.
   b. What is screen printing? And which fabrics are used for screen? How screen is prepared?

Q.5. Write short note on (16)
   1. Resist Style of printing
   2. Types of tables used in screen printing.
   3. Oil repellant finishing on textile
   4. Decatizing and Milling.

Q.6. (08)
   a. What is pigment? Explain process parameter and sequence of printing of cotton with pigment.
   b. Explain Principle of water repellent finishes on textile goods and write its application.

Q.7. (04)
   a. What is discharge style of printing and how it differs from resist style of printing?
   b. Differentiate between rotary and flat bed screen printing machine?
   c. What is stiff finish? Explain stiffening agents used in textile industry and how will you evaluate performance of stiff finish?

Q.8. (08)
   a. Explain flame retardant finishes on textile and its uses.
   b. Write short note
      1. Steam used in printing process
      2. Methods of printing

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