



Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. Discuss solubilization techniques and their application in dosage form design with example.
2. Discuss about accelerated stability studies and shelf life assessment.
3. Describe the validation procedures of sterilization.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Describe the formulation of Dispersible Tablets.
5. Describe the Quality control tests of containers and packaging materials for parenterals.
6. Describe your concepts about validation of Analytical methods.
7. Describe the quality control of Hair care products.
8. Describe the validation and calibration of equipment.
9. Describe types, formulation and quality control of skin care products.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Raw materials for Dental products.
11. Validation of water for Injection.

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