



[Time: 3 Hours]

[Max. Marks: 100]

**FORMULATION TECHNOLOGY AND VALIDATION**

**PAPER II**

**(RS 2 & RS 3)**

**Q.P. CODE: 9292**

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

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. Write about various techniques involved in enhancing solubility of an API?
2. Give an account on types of Baby care products and how will you formulate and evaluate baby lotion?
3. Explain in detail validation procedure for Hot air oven and Autoclave?

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Write the importance of Accelerated Stability studies and how will you determine shelf life of a product?
5. Describe different types of sustained release dosage forms. Add a note on the mechanism of drug release in these dosage forms.
6. Describe validation of analytical procedures
7. Describe different types of containers and closures for pharmaceuticals.
8. Explain the importance of pre formulation studies. Describe crystal morphology and polymorphism.
9. How will you carry out Dissolution testing for Tablets and capsules?

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Write a note on classification of drugs based on Biopharmaceutical classification system and show how permeability for API can be improved?
11. Discuss in detail about various Legislations for cosmetic products

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