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Roll No .....

PY-402 (GS)

B.Pharmacy IV Semester Examination, June 2020

Grading System (GS)

Pharmaceutics-V

(Dosage Form Design)

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.
ii) All questions carry equal marks.

1. Discuss various factors affecting rate of dissolution. Describe mathematical model for prediction of dissolution profile.

2. a) Discuss role of polymorphism in the formulation of dosage forms.
   b) Write a note on compression properties and excipient compatibility.

3. How do the following differ?
   a) Basket and Paddle type DR apparatus
   b) Lubricants and Glidants
   c) Preformulation and Formulation
   d) Size distribution and Polydispersity

4. Discuss the role of following additives in pharmacy.
   i) Disintegrating agents
   ii) Lubricants
   iii) Preservative

5. Discuss the importance of following preformulation parameters in pharmacy.
   a) Partition coefficient
   b) Flow properties of powders

6. Define word “expiry date”. How will you determine the expiry date? Discuss the stability testing protocols for solid and parenteral dosage forms.

7. a) Discuss methods of stabilization of drugs.
   b) Explain the stability testing protocol.

   OR

   Discuss Theory of drug dissolution and design of various dissolution apparatus (USP).

8. Write short notes on any two of the following.
   a) pKa
   b) Organoleptic additives
   c) Pathways of drug degradation
   d) Selection of dissolution media

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