

Roll No

PY-402

B.Pharmacy IV Semester

Examination, December 2016

**Pharmaceutics-V
(Dosage Form Design)**

Time : Three Hours

Maximum Marks : 70

- Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
ii) All parts of each question are to be attempted at one place.
iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What do you mean by preformulation?
b) Define dissolution study.
c) Define pharmacokinetic study.
d) Why drug-excipient compatibility study is done and discuss.

OR

Describe the procedure for doing partition coefficiently.

2. a) What excipients are used in formulation?
b) State different types of excipients.
c) Discuss different types of binders used in Tablet.

- d) Describe use of lubricants and disintegrating agent in manufacture of Tablet and show its addition.

OR

Discuss preservatives used in liquid oral preparation.

3. a) What do you mean by viscosity enhancers?
b) Define surfactant.
c) Describe role of emulsifying and suspending agent.
d) How you would develop tablet formulation?

OR

How you would develop suspension?

4. a) Define polymer audits types.
b) What do you mean by biodegradable polymers?
c) Discuss stability study.
d) How would determine expiry date of developed formulation?

OR

Discuss importance and application of polymers in formulation.

5. a) Why dissolution study is done?
b) Define Disintegration study.
c) State the factors affecting dissolution.
d) How would you do dissolution testing?

OR

Discuss different model for prediction of dissolution.
