

Total No. of Questions : 4]

SEAT No. :

P3974

[Total No. of Pages : 2

[5246]-202

M. Pharmacy

FORMULATIONS AND DEVELOPMENT

(2013 Pattern) (Credit System)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates :

- 1) *Question number one is compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw well labeled diagrams wherever necessary.*

Q1) Discuss details study of ICH Q8 (R2) Guidelines for pharmaceutical development. **[10]**

Q2) Attempt ANY THREE questions from following **[3 × 5 = 15]**

- a) Concept of Quality by Design
- b) Factors affecting phase behaviour
- c) Regulatory perspective of pharmaceutical packaging material for Novel drug delivery Systems.
- d) Semisolid based on Liposomes

Q3) Short Note (ANY THREE) **[3 × 5 = 15]**

- a) Approaches for taste masking
- b) Self emulsified drug delivery systems
- c) Nutraceuticals
- d) Metered Dose Inhalers

P.T.O.

Q4) Discuss role of propellants in inhalation aerosols. Add a note on quality assurance of Aerosol formulation. **[10]**

OR

Discuss Specialized dose dispensers in veterinary dosage forms and explain formulation strategy for administration of veterinary dosage forms via drinking water. **[10]**

