Sent Number CJ-34

## BP-403 T Physical Pharmaceutics-II (724403)

Total Pages : 2]

Time: 3 Hours

Max. Marks: 75

Note: (1) Do not write anything on question paper except Seat No.

- (2) Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- (3) Students should note, no supplement will be provided.
- (4) Draw well labelled diagrams wherever necessary.
- (5) All questions are compulsory.

20

- 1. Attempt the following:
  - (a) What do you mean by plastic and pseudoplastic flow?
  - (b) Define micromeritics. Write its application.
  - (c) Differentiate between flocculated and deflocculated suspension.
  - (d) Define porosity and Carr's index.
  - (c) Define CMS. Give its significance.
  - (f) What is accelerated stability testing? Give its limitations.
  - (g) Define zeta potential and Nernst potential.
  - (h) Enlist various types of Viscometer.
  - (i) Define craft point and cloud point.
  - (j) Give merits and demerits of sieving method.

P.T.O.

35

- Solve any two of the following: 2.
  - What are Newtonian and non-Newtonian system. Explain Dilatant flow.
  - Define Micromeritics. Enlist various methods to determine particle size. (a) (b) Explain coulter counter method in detail.
  - Explain in detail DLVO theory along with its significance. (c)
- Solve any seven of the following: 3.
  - Define order of reaction and explain graphical method to determine (a)
  - Classify Viscometer. Explain in detail falling sphere viscometer. (b)
  - Write a note on causes and remedies of cracking and creaming. (c)
  - Write a note on Catalysis. (d)
  - Write a note on optical microscopy. (e)
  - Define Angle of Repose. Explain method to determine it. **(**)
  - Explain in detail formulation of suspension. (g)
  - Discuss method to determine HLB. (h)
  - Give pharmaceutical applications of colloids. (i)

CJ-34