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DAN-BP403-T

Seat No. _____

M. P. M. (Sem. IV) (W.E.F. 2017) Examination

April / May - 2022

BP-403T : Physical Pharmacy-II (Theory)

Time : **3** Hours] [Total Marks : **75**

Instructions : (1) Answer the following questions.
(2) Figures to the fight indicate marks.
(3) Draw neat and clean diagrams as required.

1 Answer the following questions. **20**

(1) Define suspensions. Write any two advantages of suspensions.
(2) Enlist methods to identify types of emulsions.
(3) What are the applications of micromeritcs in the production of dosage forms ?
(4) What are the limitations of accelerated stability studies.
(5) Enlist various methods to determine order of a reaction.
(6) Give the formula of Angle of Repose and carr's index.
(7) What is the difference between flocculation and creaming.
(8) Describe any two applications of thixotrophy.
(9) Define Newtonian flow ? Give two examples.
(10) What is the difference between molecular dispersion and colloidal dispersion ?

2 Answer the following questions. (Any Two) **20**

(l) Discuss Newtonian and Non-Newtonian Flow of fluids with rheogram and suitable examples.
(2) What is micrometetics ? Explain methods for determination of surface area.
(3) Explain factors affecting stability of drug.

3 Answer the following questions. (Any Seven) **35**

(1) Explain sedimentation method for praticle size determination.

(2) Discuss methods for determining order of reaction.

(3) Explain conductivity method for particle size determination.

(4) Difference between microemulsion and multiple Emulsions.

(5) Write a note on pseudoplastic, dilatants and plastic flow.

(6) Explain in detail thixotropy.

(7) Discuss optical properties of colloids.

(8) Describe capillary method for the determination of viscosity.

(9) Describe physical instability markers of emulsion.

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