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B PHARM
(SEM IV) THEORY EXAMINATION 2022-23
PHYSICAL PHARMACEUTICS II

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

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

(a) Define kinematic viscosity.

(b) Define porosity.

(c) What is peptization?

(d) Draw rheogram of plastic fluid.

(e) What are Newtonian fluids?

(f) Define Feret and Martin diameter.

(g) What is rheopexy?

(h) Name two rotational viscometer.

(i) Define Hausner's Ratio.

(j) Give example of Non-Newtonian fluids.

SECTION B

2. Attempt any *two*parts of the following: **2 x 10 = 20**

(a) Differentiate Newtonian and Non-Newtonian liquids.

(b) What are different methods of determining particle size? Discuss Andreason Pipette method.

(c) Discuss accelerated stability studies.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

(a) What is plug flow? Discuss the viscometer which have the disadvantage of plug flow and how will you minimize it.

(b) Discuss dilatent flow and negative thixotropy.

(c) What are different flow properties of powder? Discuss.

(d) Explain various properties of colloids.

(e) What are colloids write down application of colloids in pharmaceutical system? Discuss briefly about it.

(f) Write down the ideal characteristics of suspension. Discuss sedimentation parameters.

(g) Discuss theories of emulsion.