

School of Medical and Allied Sciences

Pharmacy
ETE - Jun 2023

Time : 3 Hours

Marks : 75

Sem IV - BP403T / BPHT4003

Physical Pharmaceutics II Theory

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

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| 1. | Recall types of colloids. | K1 CO3 (2) |
| 2. | Explain the term thixotropy. | K2 CO3 (2) |
| 3. | Interpret about the term Lyophilic and Lyophobic colloids. | K2 CO1 (2) |
| 4. | List out kinetic properties of colloid particles. | K1 CO4 (2) |
| 5. | Interpret about the Newtonian system with suitable example. | K2 CO2 (2) |
| 6. | What is Zero order reaction explain with formula? | K1 CO5 (2) |
| 7. | What are Colloid and Colloidal dispersion? | K1 CO1 (2) |
| 8. | Summarize the term adsorption of solids. | K2 CO4 (2) |
| 9. | Define dilatant flow of liquids. | K1 CO2 (2) |
| 10. | Extend the phenomenon of Isoelectric point. | K2 CO5 (2) |
| 11) | Build a note on applications of colloids. | K3 CO1 (5) |

OR

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| | Build a note on Tyndall effect. | K3 CO1 (5) |
| 12. | Identify the term surface active agent and HLB scale with examples. | K3 CO3 (5) |
| 13. | Analyze about the kinetic properties of colloid (Sedimentation and Osmotic pressure). | K4 CO1 (5) |
| 14. | Simplify the term Thixotropy and write in detail about thixotropy in dilatant system. | K4 CO2 (5) |

OR

Analyze Plastic flow of material with rheogram.

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| 15. | Plan a note on micro and macroemulsions with example. | K3 CO2 (5) |
| 16) | Contrast on types of suspension and emulsions. | K4 CO3 (5) |

OR

Compare flocculated and deflocculated suspension. K4 CO3 (5)

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| 17. | Examine the term NDDS and classify different NDDS techniques. | K6 CO6 (5) |
| 18. | Justify the title Communiton (Size reduction) and explain in detail about Colloidal mill. | K5 CO4 (10) |
| 19) | Develop a note on Accelerated stability studies related to pharmaceutical products. | K6 CO5 (10) |

OR

Discuss about stability studies and factors which influence the stability characters of pharmaceutical products. K6 CO5 (10)