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Roll No.

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B. Pharma (2012 to 2016) (Sem.-4) PHARMACEUTICS-V (Physical Pharmacy) Subject Code : BPHM-405 M.Code : 46235

Time: 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

Answer briefly :

- 1. What are Isotonic Solutions?
- 2. Differentiate between bulk density and true density.
- 3. What is triple point? Explain it with the help of diagram.
- 4. Define Thixotropy.
- 5. What are Surface Active Agents?
- 6. Explain the plug flow.
- 7. Define Angle of Repose.
- 8. Explain Polymorphism.
- 9. Differentiate between adsorption and absorption.
- 10. Differentiate between amorphous and crystalline forms.
- 11. What are Pharamceutics?

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- 12. Define Inclusion complexes and mention two examples.
- 13. Draw the figures representing pseudo plastic and plastic flow.
- 14. Mention the Arrhenius equation and its utility.
- 15. Define Relative Humidity.

SECTION-B

- 16. Explain Eutectic Mixtures.
- 17. Define Ideal Properties of Powder.
- 18. What are Newtonian and Non- Newtonian types of flow? Show the different. plots for rate of shear *vs*. shearing stress.
- 19. Enlist HLB classification.
- 20. Pharmaceutical Applications of complexes.

SECTION-C

- 21. Describe different factors affecting drug stability.
- 22. Discuss different types of Newtonian systems and differentiate between them.
- 23. Write different methods to determine interfacial tension and surface tension.
- 24. Define Polymorphism. Explain its relevance in pharmacy.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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