

VINAYAKA MISSION'S RESEARCH FOUNDATIONS
(Deemed to be University) , SALEM

Pharm.D DEGREE EXAMINATION - September 2021

First Year

PHARMACEUTICS

Time: Three hours

Maximum: 70 marks

- I. Write essays on any **TWO** questions: (2 x 15 = 30)
1. i) Formulate a method for preparing surgical catgut and discuss its sterilization methods. (7)
 - ii) Illustrate the different parts of prescription with a suitable model.(8)
 2. i) Evaluate the different parameters that indicate the stability of suspension.
 - ii) Enumerate the factors affecting doses of drugs in human.
 3. i) Discuss about the preparation of suppositories in dental.
 - ii) Define and classify Incompatibility. Add a note on physical incompatibilities that can occur in a prescription. (3+5)
- II. Write short answers on any **SIX** questions: (6 x 5 = 30)
4. Assess the importance of displacement value. Calculate the displacement value of zinc oxide in theobroma oil suppositories containing 40% of zinc oxide and is prepared in a 1g mould. The weight of 8 suppositories is 11.74g. (2+3)
 5. Enumerate the different methods involved in preparation of emulsions.
 6. Compare and contrast the different maceration process.
 7. Classify monophasic liquid dosage forms for internal uses. Briefly describe syrup. (2+3)
 8. Explain the salient features of the Indian Pharmacopoeia.
 9. Write a note on explosive powders.
 10. Discuss about the historical development of profession of pharmacy.
 11. i) If 30 mg of ephedrine hydrochloride can be given to an adult, what will be the dose for a child of 3 Years? (2.5)
 - ii) If 500g solution contains 75g of a drug substance, what is the percentage strength (w/w) of the solution? (2.5)
- III. Write short notes on any **FIVE** question: (5 x 2 = 10)
12. List out the different extraction process.
 13. Differentiate between lotions and liniments.
 14. List out the different semi solid dosage forms intended for external use.
 15. Write any two problems associated with insufficient.
 16. Describe the importance of dye test in identifying the type of emulsion.
 17. Identify the significance of Superscription in a prescription.