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

Pharm.D DEGREE EXAMINATION - July 2019
First Year

PHARMACEUTICS

Time: Three hours   Maximum: 70 marks

I. Write essays on any TWO questions: (2 x15 = 30)

1. a) Define maceration. What are the factors effecting choice of an extraction process.   (1+5)
   b) Define posology. What are the various factors influencing dose selection.   (1+8)
2. a) Classify dosage forms. Add a note on mixing of powders.   (4+4)
   b) With a help of typical prescription, explain its various parts.   (7)
3. a) Explain the double and multiple maceration process.   (8)
   b) Discuss in detail about the bulk powders for external use.   (7)

II. Write short answers on any SIX questions: (6 x 5 = 30)

4. Discuss in detail methods of preparation for suppositories.
5. Explain the identification test for emulsion.
6. Discuss the steps involved in preparation of surgical catgut.
7. Write a note on Indian pharmaceutical industries.
8. Explain in detail about the various adjuvants used in monophasic dosage form with examples.
9. Explain simple percolation process with neat- labelled diagram.
10. Write the salient features of latest edition of Indian pharmacopoeia.
11. a) Find the concentration of sodium chloride required to make a1% solution of boric acid isosmotic with blood plasma (given: the freezing point of 1% w/v solution of boric acid is 0.288^0c the, freezing point of 1% sodium chloride solution is - 0.576^0c .
    b) In what proportion should 50% v/v alcohol and 30% v/v alcohol should be mixed to produce 20% v/v of alcohol?

III. Write short notes on any FIVE question: (5 x 2 = 10)
12. Give the auxiliary label for liniments and enema.
13. Define the terms collodions and throat paint with example.
14. What are isotonic and isosmotic solutions with examples?
15. Definition and significance of displacement value.
16. Classify monophasic dosage form according to its use externally.
17. Write the various formula used in calculation of child dose based on age.

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