

**SUPPLEMENTARY
DOCTOR OF PHARMACY
First Year Pharm. D. :SUMMER- 2022
SUBJECT : PHARMACEUTICS**

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 14-09-2022

S-5725-2022

Max. Marks : 70

N. B. :

- 1) **Q. N0. 1** and **Q. N0. 5** are compulsory. Out of remaining questions solve **ANY TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q. 1 a)** Answer **ANY FOUR** of the following: **(08)**
- i) Define the term 'Isotonicity' and 'Tolerance'.
 - ii) Differentiate between Mouthwash and Gargles.
 - iii) Enlist the advantages of Granules over powder.
 - iv) What is the direction and patient counselling for lotion and throat paint?
 - v) Write the role and examples of antioxidants and buffering agent.
- b)** What is the proof strength of 70 % v/v and 90 % v/v of ethanol? **(03)**
- Q. 2** Define the term prescription. Explain the various parts of prescription with suitable format. **(12)**
- Q. 3 a)** Define the term solution. Explain the various additives used in the compounding of solution. **(07)**
- b)** What is PMR? Enlist the importance of PMR with suitable example. **(05)**
- Q. 4** Write short notes on **ANY THREE** of the following: **(12)**
- a) Factors affecting for dose calculation.
 - b) Developmental changes in Indian pharmacopoeia.
 - c) Unit operations in compounding of powder.
 - d) Patient information leaflets.

SECTION – II

- Q. 5 a)** Answer **ANY FOUR** of the following: **(08)**
- i) Differentiate between flocculated and deflocculated suspension.
 - ii) What is the ratio of oil:water:gum in emulsion?
 - iii) What is the need of calibration of suppository moulds?
 - iv) Define the following terms:
 - a) Tincture
 - b) Infusion
 - v) Define and enlist the ideal properties of sutures and ligatures.

P. T. O.

- b) Write briefly about the physical stability of suspension. (03)
- Q. 6 Define and classify the term emulsion. Explain in detail about the formulation aspects of emulsion. (12)
- Q. 7 a) Write briefly about types and ideal properties of suppository bases. (07)
b) Explain the principle of extraction. (05)
- Q. 8 Write short notes on **ANY THREE** of the following: (12)
- a) Maceration
 - b) Identification tests for emulsion
 - c) Steps involved in the moulding of suppository
 - d) Biodegradable sutures and ligatures

* * * * *