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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-2)
PHARMACEUTICS-I
(Dispensing & Community Pharmacy)
Subject Code : BPHM-201
Paper ID : [D1112]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION 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**1. Answer briefly :**

- a) Differentiate between bulk powder and divided powder.
- b) What are therapeutic incompatibilities? Explain with examples.
- c) Define displacement value. Enlist 2 ideal properties of suppository bases.
- d) Define tinctures and give examples.
- e) How many proof gallons are represented by 50 wine gallons of 90% v/v alcohol?
- f) Explain the role of pharmacist as a health educator.
- g) Discuss and identify the incompatibility to overcome the iodide with dilute sulphuric acid and Quinine Sulphate.
- h) Define prescription and superscription.
- i) Define the term eye drops. Describe in brief the formulation of eye drops.
- j) What are pills and write the method of preparation of pills.
- k) The adult dose of a drug is 300 mg. Calculate the dose for 6 years old child using young's formula.
- l) Differentiate between ointment and cream.
- m) Explain the eutectic mixture with one example.

- n) Define and differentiate elixirs and syrups.
- o) Discuss chemical incompatibilities which occur due to evolution of amino acids and carbohydrates.

SECTION-B

- 2. Describe different sources of errors in prescription.
- 3. Discuss various tests to identify the type of emulsions. Also detail the reason for instability of an emulsion.
- 4. Discuss the organization and structure of retail and wholesale of drug store type.
- 5. Discuss in detail the different types of suppository bases with their applications.
- 6. Write down the comparative advantages and disadvantages of flocculated and de-flocculated suspensions.

SECTION-C

- 7. (a) Describe various techniques used to increase solubility of an insoluble drugs. (7)
(b) How much of a 3% ointment must be added to 50 mg of a 15% ointment to make 10% ointment? (3)
- 8. (a) Discuss the mechanism and various factors affecting the dermal penetration of drugs. (7)
(b) Find the concentration of Sodium chloride required to render a 1.5% solution of procaine Hydrochloride iso-tonic with blood plasma
Freezing point of 1% w/v solution of procaine HCl = -0.122°C
1 % w/v solution of NaCl = -0.576°C (3)
- 9. (a) Write a note on chemical and therapeutic incompatibilities in pharmaceutical formulations with suitable examples. (7)
(b) How much of each of 80%, 50%, 30% V/V alcohol and water will be required to prepare 400 litres of 40% V/V alcohol? (3)
- 10. (a) Write a detailed account of role of pharmacist in community healthcare and education. (5)
(b) Discuss various evaluation tests for suspension. (5)