

Pramukh Swami Science and H.D.Patel Arts College
B.Voc-Pharmaceutical Chemistry
Internal Examination Semester I
Subject: PC 112

Time: 2 hrs

Date: 26/11/14

Marks: 60

Q.1 Answer any 12 questions. Each question carries 1 mark

[12*1=12]

1. Which one of the following is a route of administration for suppository?

- | | |
|-------------|-----------|
| a. Parental | c. Rectal |
| b. Oral | d. Nasal |

2. Which intermolecular forces are involved in the formation of the complexes?

3. What is called inclusion complexes?

4. Match of the following

A	B
Type	Dosage form
Solid	suspension
Liquid	ointment
Semisolid	effervescent granules

5. Among these which is highly non-polar solvent.

- a) Ketone b) Hexane c) Alcohol d) Acetonitrile

6. _____ is defined as the separation of the components of a liquid mixture by a process involving vaporization and subsequent condensation at another place.

7. Nonpolar solvents such as benzene and carbon tetrachloride are completely miscible.

True/False

8. Match of the following

Route	Intended for
Parental	Eye
Ophthalmic	i.v.
Otic	ear

9. _____ is defined as the heat of reaction when a compound is formed from its elements (in their natural state of aggregation) at 25°C and 1 atm.

10. What are chelates?
11. Sterile hermetic containers generally hold preparations intended for injection or parenteral administration. **True /False**
12. Capsules normally fall into two main categories. Which are they?
- | | |
|--|--|
| a. Hard gelatin capsules and soft gelatin capsules | c. Soft gelatin capsules and compressed capsules |
| b. Hard gelatin capsules and layered capsules | d. Compressed and layered capsules |
13. Steam distillation is defines as a process in which the entire liquid mixture is suddenly by passing the feed from a high pressure zone to low pressure zone. **True /False**

Q.2 Answer any 5 questions. Each question carries 04 marks [5*4=20]

1. Give the major applications of complexes in pharmacy and medicine.
2. Write a short note on distribution coefficient with suitable examples.
3. Differentiation between evaporation, Distillation, Precipitation and crystallization.
4. Discuss modes of heat transfer.
5. Define filtration, Filter medium, Filter cake. Enlist factors affecting filtration and filtration technique.
6. Enlist labeling of dispensed products.

Q.3 Answer any 4 questions. Each question carries 07 marks [4*7=28]

1. Give the classification of complexes in pharmaceuticals? Explain Organic molecular complexes.
 2. Define dosage forms and classified as per route of administration. Discuss oral dosage forms.
 3. Define distillation. Discuss different types of distillation.
 4. Discuss different types of heat of reaction and heat of formation.
 5. Discuss packaging of dosage forms.
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