**ARKA JAIN University, Jharkhand**

1st Semester 2nd Internal Examination – 2023-2024



**Subject:** **Pharmaceutics I**

**Course: B. Pharm** **Full Marks: 30**

**Time: 1hr**

* **All Questions are compulsory**.
1. **Multiple Choice Questions (10 X 1 = 10)**
2. A syrup is a concentrated aqueous solution of sugar present

 a) 85% w/v usp b) 85% v/w usp

 c) 80% w/v usp d) 80% v/w usp

1. Which of the following is a biphasic liquid dosage form?

 a) Syrup b) Lotion

 c) Emulsion d) Elixir

1. Elixir contains

 a) Water b) Alcohol

 c) Water & alcohol d. None of the above

1. Which of the following is an emulsifying agent

a) Tragacanth b) EDTA

c) a & b both d) None of the above

1. What is the mineral oil : water : gum ratio for the emulsion preparation

a) 4 : 2 : 1 b) 3 : 2 : 1

c) 2 : 2 : 1 d) none of the above

1. Which of the following has more bioavailability compared to any other dosage form

a) Solution b) Capsule

c) Tablet d) All of the above

1. Ideal suppository melts at

a) Normal body temperature

b) More than normal body temperature

c) Less than normal body temperature

d) None of the above

1. Which of the following is a fatty or oleaginous base

a) theobroma oil b) glycerinated gelatin

c) massa esterinum d) witepsol

1. Aurinaria is another term of

 a) Vaginal suppository b) Urethral suppository

 c) Ear cones d) Rectal suppository

1. Solutions are ……………………..dosage form

 a) Monophasic b) Biphasic

 c) Triphasic d) none of the above

1. **Long answers (answer 1 out of 2) (10 x 1 = 10)**
2. What are stability problems in emulsion and methods to overcome instability in emulsion?
3. Write a note about the different methods of Preparation of Emulsion.
4. **Short answers (answer 2 out of 3) (5 x 2 = 10)**
5. What are the tests for the identification of the type of emulsion?
6. Why is the β form of theobroma oil (cocoa butter) only used for the suppository base?
7. Calculate the displacement value of medicament in cocoa butter suppositories containing 40% medicament, prepared in 1 gm suppository mould. The weight of 10 medicated suppositories is 15 gm.