| Seat No.: | Enrolment No. |
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| OCALINO | EMIOHIGHENO. |

Subject Code: BP103TP

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 1 EXAMINATION - WINTER -2024

Date: 15/02/2025

| | e: 1 | 0.30 AM TO 01.30 PM Total Marks: 80 | |
|------|-------------------|--|----------------|
| msu | 1. 2. 3. | | |
| Q.1 | (a) (b) (c) | Define terms 1) Elixir 2) Lotion 3) Paste 4) Mixture 5) Linctus 6) Enemas Write in detail Education and scope of pharmacy. Define Prescription. Discuss parts of prescription with sample prescription. | 06 05 05 |
| Q.2 | (a) | Define Posology. How age, body weight and surface area influence calculation of dose. Write equations to calculate child dose based on Age, Surface area and body Weight. | 06 |
| | (b) (c) | Write in detail steps involved in prescription handling. Discuss excipients used in different liquid dosage forms. | 05 05 |
| Q.3 | (a) | Define suppositories. Classify suppository bases. Write ideal properties of Suppository bases. | 06 |
| | (b) (c) | Write advantages and limitations of Cocoa butter as suppository base. Calculate amount of cocoa butter required to prepare 10 suppositories of 1gm each containing 200mg of zinc oxide. (Displacement value of zinc oxide is 5). | 05 05 |
| Q.4 | (a) | Define Emulsion. Classify Emulsion. Discuss instability problems of emulsion and suggest remedy. | 06 |
| | (b) (c) | Write labelling requirement for emulsion, liniment and eye drops Write methods used in Identification of type of Emulsion. | 05 05 |
| Q.5 | (a) | Define incompatibility. Classify types of incompatibility and discuss therapeutic incompatibility. | 06 |
| | (b) | Find concentration of sodium chloride required to make 50 ml of isotonic solution containing 0.5% Ephedrine hydrochloride and 0.5% Chlorobutol. [freezing point of 1% w/v solution of Ephedrine hydrochloride and Chlorobutol are given as -0.165°C and -0.138°C respectively. freezing point of 1% w/v solution of sodium chloride is -0.576°C] | 05 |
| | (c) | Calculate the volume of each 90%, 60 %, 30% alcohol and water required to produce 1000ml of 50% alcohol solution. | 05 |
| Q. 6 | (a) | Differentiate followings 1) Paste and ointment 2) Flocculated and deflocculated suspension | 06 |
| | (b) | What do you mean by Tolerated and Adjusted type of incompatibility? Discuss the following prescription and suggest remedy. Rx Sodium benzoate Caffeine citrate Water. | 05 |
| | (c) | Discuss in detail physical incompatibility and suggest remedy with suitable examples. | 05 |
| Q.7 | (a) | Classify the ointment bases. Write Ideal properties of ointment base. Discuss properties of absorption bases in brief. | 06 |
| | (b) (c) | Discuss various methods of preparation of cream and ointment. Discuss formulation, labeling and packaging for effervescent granules. | 05 05 |