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| | F.Y. B. Phaem Sem II coas. P'centres I | |
| 25 1ST H | ALF-13 (p)-JP 2012-2013 2215120 | 13 |
| Con. 57 | 788-13. DC-20 | 48 |
| | (3 Hours) Total Marks: | 70 |
| N.B. | (1) All questions are compulsory. | |
| | (2) Figures to the right indicate full marks. | |
| 1. (a) | Explain the need for dosage form. | 2 |
| (b) | Define the terms absorption and distribution. | 2 |
| (c) | How much quantity of alcohol is required to prepare 250 ml of 60% v/v alcohol? | 1 |
| (d) | Define relative viscosity. | 1 |
| (e) | What are syrups ? Explain any two methods for preparation of syrups. | 4 |
| | OR | |
| (e) | What are aromatic waters? Explain the preparation methods of aromatic waters. | 4 |
| (f) | Give reason: Ampicillin trihydrate padiatric formulation is formulated as dry syrup. | 2 |
| (g) | Discuss the applications of complexation in formulation of pharmaceuticals. | 2 |
| (h) | Define dissolution rate. | 1 |
| | | |
| 2. (a) | Discuss the advantages and limitations of oral route of drug administration. | 3 |

| 2. | (a) | Discuss the advantages and limitations of oral route of drug administration. | 3 |
|----|-----|---|---|
| | (b) | Give an account of Ayurveda as an alternate system of medicine. | 2 |
| | (c) | Explain the micellization technique for solubilization of drugs. | 2 |
| | (d) | What is primary packaging? Explain the advantages and limitations of glasa as a packing material. | 3 |
| | (e) | Enlist the methods used for analysis of complexes. | 1 |
| 3. | (a) | Give the GMP requirements for personnel in manufacturing area. | 2 |
| | (b) | Differentiate between Newtonian and Non Newtonian flow. | 2 |
| | (c) | Describe the working of Propeller mixers. | 2 |
| | (d) | Enumerate different methods used for particle size measurement and explain any one in detail. | 4 |
| | (e) | State Fick's Second law of diffusion. | 1 |

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| 4. | (a) | Define (any three):— | 3 |
|----|-----|---|-----|
| | | (i) Elixit | |
| | | (ii) Liniment | |
| | | (iii) Ointment | |
| | | (iv) Effervescent granules. | |
| | (b) | An IV injection contains 8% w/v of mannitol. How many ml of injection should be | 2 |
| | / | administered to provide a patient with 50 grams of mannitol? | |
| | (c) | Give the advantages and limitations of water as a vehicle for preparation of monophasic | . 2 |
| | | liquids. | |
| | (d) | Explain the principle of particle size separation using cyclone separator. | 2 |
| | (e) | State the Noyes-Whitney equation and Hixson-Crowell equation. | 2 |
| | | 3 | |
| 5. | (a) | Give a brief overview of history of Pharmacy proffession in India. | 2 |
| | (b) | Explain any one technique used for the measurement of flow of non-Newtonian fluids. | 2 |
| | (c) | Explain the terms filtration and clarification. What are the factors affecting filtration | 3 |
| | | rate ? | |
| | (d) | Enlist different methods used for size reduction. Explain the principle, construction | 4 |
| | | and working of ball mill OR fluid energy mill. | |
| | | | |
| 6. | (a) | Write a note on development of Indian Pharmacopoeia. | 3 |
| | (b) | Define the terms bioavailability and dose response. | 2 |
| | (c) | Give an account of packing material used for packaging of liquids. | 4 |
| | (d) | What are the different types of mixers used for powder mixing? | 2 |
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