

[Time:3 hours]

[Total Marks :75]

Note: Please check whether you have got the right question paper.

NB: 1. **All** questions are **compulsory**.

2. **Figures** to the **right** indicate **full** marks.

Q. 1 Choose the correct answer

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- (a) Using Clark's formula, calculate the dose for a child weighing 20 lb. The adult dose is 300 mg.
 (a) 40 mg (b) 110 mg (c) 200 mg (d) 35 mg
- (b) In liquid dosage form which of the following dosages forms is used for oral administration
 (a) Liniments (b) Linctus (c) Enema (d) Lotion
- (c) Use of formulations made up of numerous plants referred as.....
 (a) Parenteral (b) Plant Vehicle (c) Galenical (d) Generic
- (d) The part of the prescription called inscription contains
 (a) Name and quantity of ingredients (b) Direction to the patient (c) Direction to the patient's relatives (d) Patient information
- (e) Who organizes the Indian Pharmaceutical Congress every year?
 (a) Indian Pharmaceutical Association (b) Indian Pharmaceutical Congress (c) Indian Pharmaceutical Congress Association (d) Indian Pharmacy Graduates Association
- (f) Example of Low-calorie sweetening agents used as additive in liquid dosage form is
 (a) Sucrose (b) Fructose (c) Dextrose (d) Aspartem
- (g) The ideal particle size for topical powders is
 (a) 50 – 100 micron (b) 150 – 200 micron (c) 250 – 500 micron (d) Above 1000 micron
- (h) How many grams of dextrose required to prepare 3000 ml of 5% w/v solution
 (a) 150 gms (b) 200 gms (c) 250 gms (d) 300 gms

- (i) In heat method of preparing effervescent granules to make damp mass _____ releases 1 molecules of water of crystallization
 (a) Citric acid (b) Tartaric acid (c) Sodium bicarbonate (d) Sucrose
- (j) Throat paints are liquid preparations
 (a) Viscous (b) Gas (c) Liquid (d) Solid
- (k) Douches are meant for application in.....
 (a) Vaginal (b) Rectal (c) Nasal (d) Buccal
- (l) The role of emulsifying agent is _____.
 (a) Reduce the interfacial tension between miscible phases (b) Decrease surface area in emulsion (c) Improves the medication taste (d) Increase the size of globules
- (m) Double decomposition is an example of _____ incompatibility.
 (a) Chemical (b) Physical (c) Biological (d) Therapeutic
- (n) One of the following is disadvantage of cocoa butter suppository base is
 (a) Polymorphism (b) Miscibility with many ingredients (c) Solid at room temperature but melts in body (d) Blandness
- (o) Suppositories can be prepared by _____.
 (a) Redispersion (b) Compression (c) Precipitation (d) Maceration
- (p) _____ is a remedy to overcome the incompatibility between oil and water
 (a) Addition of Surfactant (b) Addition of Sweetner (c) Addition of Antioxidant (d) Stirring of immiscible phases
- (q) Polyethylene glycol are also known as _____.
 (a) Macrogols (b) Oleaginous (c) Lanolin (d) Paraffin
- (r) Which base should be selected when water washability is the key requirement?
 (a) Hydrocarbon base (b) Water soluble base (c) Absorption base (d) Emulsion base

- (s) _____ is an example of gelling agent.
 (a) Pectin (b) Liquid Paraffin (c) Sorbitol (d) Propylene glycol
- (t) Which among the following ointment is prepared by chemical reaction?
 (a) Non-staining Iodine ointment BPC 1968 (b) Simple ointment B.P. (c) Salicylic acid ointment B.P. (d) Whitfield's ointment

Q.2 Answer any TWO

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- (a) Give classification of powders. Explain bulk powder for external use
- (b) Discuss identification tests and stability problems of emulsions
- (c) Explain types of ointment bases. Discuss preparation methods of ointments

Q.3 Answer any SEVEN

35

- (a) Discuss different career options available in the Pharmacy Profession.
- (b) Define Prescription. Discuss in detail different parts of prescription
- (c) Classify dosage forms. Define Elixirs, liniments, lozenges and suppositories
- (d) How will you prepare 70gms of 15% Iodine Ointment from 5%, 20% & 25% Iodine ointment. Find out how many ml of 70%, 40% and 30% of alcohol should be mixed to get 55% v/v 1200ml of alcohol.
- (e) What are the advantages and Disadvantages of liquid dosage form? Add a note on vehicles used.
- (f) Differentiate between flocculated and Deflocculated suspension
- (g) Write a note on solutions instilled in body cavities
- (h) Define displacement value. Calculate the formula for 10 bismuth subgallate Suppositories each containing 300mg of bismuth subgallate. Given: Displacement value of Bismuth subgallate is 3.
- (i) What are pharmaceutical incompatibilities? Mention its types and explain Chemical incompatibility with suitable example.
