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- Instructions* –
- (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Figures to the right indicate full marks.
 - (4) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any **EIGHT** of the following:

16

- a) List the ideal qualities of suspension.
- b) Calculate the proportion of 16%, 12% and 8% be mixed to get 10% ointment.
- c) Differentiate between paste and ointments.
- d) Give the reasons for followings.
 - i) Throat paints are viscous.
 - ii) Mouth wash are dispensed in concentrated form.
- e) Write the disadvantages of polysaccharide emulsifying agents.
- f) Calculate the dose for a child with 8 month old and adult dose is 400mg.
- g) Translate the following Latin terms in English.
 - i) Cataplasm
 - ii) Trochiscus
 - iii) Si opus sit
 - iv) Ter in die
- h) Convert the followings term in to metric
 - i) one ounce
 - ii) one pound (avoir)
 - iii) one table spoonful
 - iv) one drachm
- i) Write the ideal qualities of depilatories.
- j) Most of the emulsion appears white or opaque, why?

2. Attempt any **FOUR** of the following:

12

- a) Differentiate between flocculated and deflocculated suspension.
- b) Define hair Dyes. How they are classified? Give their ideal qualities.
- c) Explain the incompatibility in following prescription and suggest a suitable remedy.

Rx

Sodii Salicylatis
 Quininae Sulphatis
 Acidi Sulphurici diluti

3 ii
 gr xii
 m xxx
 ad 3 vi

Aquam

Make a mixture

- d) Explain the oleaginous ointment bases with disadvantages of it.
- e) Define “ Displacement value of medicament”. Calculate the displacement value of ZnO from the following data:
 - i) Weight of six un-medicated Suppositories - 6g
 - ii) Weight of six suppositories containing 40% of zincoxide - 8.8g
- f) Describe test for sterility IP for parenteral.



3. Attempt any **FOUR** of the following:

- Calculate the volume of alcohol required to prepare 700ml, 65% alcohol using 95%, 70%, 55% and 40%.
- Explain the types of cachets with its advantages.
- List the ideal characteristics of ophthalmic products and explain the ophthalmic ointment.
- Explain - Herapath reaction for Quinine with the remedy and example.
- Give the advantages of emulsion bases (synthetic bases) over cocoa butter base.
- Define jellies, list the jelling agents and write the disadvantages of it.

4. Attempt any **FOUR** of the following:

12

- Explain the following factors which affect the dose of drug.
 - Tachyphylaxis
 - Idiosyncrasy
 - Route of administration
- Explain the sources of error in prescription.
- Define elixir and write the formulation of it.
- Explain the method of dispensing of following powders.
 - Explosive powder
 - Volatile powder
 - Hygroscopic and deliquescent
- Define lipstick and write the formulation of it.
- State the meaning of creaming and explain the factors affecting creaming.

5. Attempt any **FOUR** of the following:

12

- Differentiate the diffusible and indiffusible mixture and describe the method of preparation of diffusible mixture.
- Explain adjusted chemical incompatibility with example.
- Explain the following terms.
 - Foundation cream
 - Cold cream
 - Eye shadow
- Define dusting powder and differentiate medicated and surgical dusting powders.
- Define poultice and describe the method of preparation of poultice with example.
- Explain the formulation of parenteral.

6. Attempt any **FOUR** of the following:

16

- Explain any four tests for identification of emulsion.
- Describe any four pharmaceutical factors which govern the selection of ointment base.
- Find the amount of sodium chloride required to make 50ml of isotonic solution - containing 1.5% of ephedrine HCL and 0.5% of chlorobutal.

Given :

- F.P. of 1% solution of ephedrine HCL = -0.165°C
 - F.P. of 1% solution of chlorobutal = -0.138°C
- Explain the steps involved in processing of parenteral.
 - How will you dispense the following prescription (mention, calculation, use, method of preparation)

Rx

Olei Eucalypti m.x.

Olei Theobromatis 4.S.

Fiat pessus, Mitte tales each of 15 grain

Signa : Unus hora somni utendus. D.V. of E. oil - 1

- Describe the methods of evaluation of suspension.