



811

14115

3 Hours/80 Marks

Seat No.

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- Instructions :** (1) **All** questions are **compulsory**.  
(2) Answer **each** next main question on a **new** page.  
(3) Illustrate your answers with **neat** sketches **wherever** necessary.  
(4) Figures to the **right** indicate **full** marks.  
(5) Use of Non-programmable Electronic Pocket Calculator is **permissible**.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are **not** permissible in Examination Hall.
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**MARKS**

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

**16**

- a) Translate following terms into English.
  - i) Cataplasma
  - ii) Jentaculum
  - iii) Cochlear magnum
  - iv) Ante Cibos.
- b) What is method B for precipitate yielding interactions ?
- c) Write four advantages of suppositories.
- d) Give any two examples of preservative used in ophthalmic preparation.
- e) Calculate the dose of child who has a body surface area of  $0.63 \text{ m}^2$ , when adult dose is 50 mg.
- f) What are hygroscopic and deliquescent powders ? Give example.
- g) Define diffusible and indiffusible substances.

**P.T.O.**

**MARKS**

- h) Why throat paints are viscous ?
- i) Enumerate various quality control test for parenterals product.
- j) Enumerate various tests to identify the types of emulsion.
- k) Define and classify facial cosmetics.
- l) Differentiate between ointment and creams.

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

**12**

- a) Define prescription. Write various parts of prescription with significance of each.
- b) How you will dispense the following prescription ? Pointout incompatibility.

R<sub>x</sub>

Phenobarbitone sodium            650 mg

Ammonium chloride                8 g

Water upto                            100 ml

- c) Define the following :
  - i) Tachyphylaxis
  - ii) Tolerance
  - iii) Idiosyncrasy.
- d) What do you mean by cachets ? Discuss the different types of cachets.
- e) Differentiate between liniments and lotion.
- f) Classify thickening agents of suspension.

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

**12**

- a) Describe dermatological factors for selection of ointment base.
- b) Define Jellies. Discuss its types.
- c) Describe formulations of dentifrices.
- d) Mention the advantages and disadvantages of parenteral products.
- e) Give general requirement of ophthalmic preparations.
- f) Explain the terms creaming, cracking and phase inversion.



**MARKS**

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

**12**

a) How will you dispense the following ? Identify the incompatibility.

R<sub>x</sub>

Sodium bicarbonate – 1 g

Borax – 1 g

Phenol – 0.5 g

Glycerin – 20 g

Water upto – 90 ml

Make a spray solution.

b) Write short note on dusting powder and insufflations.

c) Give the formulation of mixtures.

d) Discuss oral and ophthalmic suspension.

e) Describe cataplasms.

f) Explain cold compression method of preparation of suppositories.

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

**12**

a) Prepare and dispense following emulsion.

R<sub>x</sub>

Liquid paraffin – 60 ml

Phenolphthalein – 2 g

Agar – 1.5 g

Syrup – 15 g

Cinnamon water upto – 180 ml

Make an emulsion.

b) Define pastes. Describe bases used for pastes.

c) Define lipstick. Give ideal qualities and formulation of lipstick.

d) Describe vehicle used in parenteral preparation.



- e) Write short note on “Adjuvants used in eye drops”.
- f) Convert into metric system.
  - i) 1 grain
  - ii) 1 fl. drachm
  - iii) 1 fl. ounce
  - iv) 1 quart
  - v) 1 minim
  - vi) 1 pound (avoir)

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

16

- a) Describe “Liquids to be used in mouth”.
  - b) Write short note on stability of suspension.
  - c) Classify natural emulsifying agents.
  - d) Define cosmetics. Discuss preparations for eye makeup.
  - e) Define pyrogens. Give in detail, about pyrogen testing of parenteral preparations.
  - f) In what proportion should 10%, 8% and 2% sulphur ointments be mixed in order to obtain a mixture of 4% sulphur ointment.
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