

[Time: Three Hours]

[Total Marks: 80]

Please check whether you have got the right question paper

1. All question are compulsory
2. Figures to right indicate full marks

Q.1 Answer the following

20M

- a) Define Surface tension & discuss the desirable features of pharmaceutical dispersion. (3)
- b) Enlist various evaluation test for suspension (2)
- c) Elaborate on penetration enhancer used in semisolid (2)
- d) Define ointment and paste. (3)
- e) Define Suppositories and give Disadvantages of suppositories. (2)
- f) Define aerosol and state advantages of aerosol (3)
- g) Enlist different material used for container in Aerosol. (3)
- h) Define Cosmetics (2)

Q.2 Answer all questions

12

- a) Distinguish between Flocculated and Deflocculated Suspension. (4)

OR.

- a) Discuss various method of preparation of suspension. (4)
- b) Enlist different bases used in ointment and explain any one in detail. (4)
- c) Explain any one method for Manufacture of Aerosols. (4)

Q.3 Answer all questions

12

- a) Discuss the official Formulation of suspension (4)

OR

- a) Discuss in detail quality control of suspension (3)
- b) Discuss in detail physiochemical factor influencing skin penetration. (3)
- c) Elaborate on coca butter. (2)
- d) Elaborate use of Fragrances in cosmetic preparation. (2)

Q.4 Answer all questions

12

- a) Discuss DLVO theory with suitable diagram. (3)
- b) Discuss any Two method of emulsifier selection. (4)
- c) Write a short note on Paste. (2)
- d) Discuss BIS Specification for cosmetics (3)

Q.5 Answer all questions

12

- a) Discuss in detail formulation additives of emulsion. (3)
- b) Write short notes on cream. (3)
- c) Elaborate on quality control test for Aerosol. (3)

OR

- c) Elaborate propellants used in aerosol.
- d) Write a note on different labelling criteria for cosmetics. (3)

Q.6 Answer all questions

12

- a) Discuss Ostwald ripening and crystal factor for suspension stability. (3)
- b) Describe large scale manufacturing of suppositories (4)
- c) Write short notes on dry powder inhalations (3)
- d) Enlist different raw material used in preparation of cosmetics. (2)

OR

- d) Elaborate use of Preservatives in cosmetic preparation.
