

[Time: Three Hours]

[Time: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

- a) Give merit and demerit of pharmaceutical dispersion. (3)
- b) Enlist various evaluation test for suspension (2)
- c) Discuss any one methods to evaluate skin penetration (2)
- d) Define paste and gel. (3)
- e) Define Suppositories and give advantages of suppositories. (2)
- f) Write desirable features of pharmaceutical aerosol (3)
- g) Enlist different material used for container in Aerosol. (3)
- h) Define Cosmetics (2)

Q.2

- a) Discuss DLVO theory with suitable diagram. (4)

OR

- a) Discuss various method of preparation of suspension. (4)
- b) Discuss in detail ointment bases. (4)
- c) Explain Cold filling method for Manufacture of Aerosols. (4)

Q.3

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

OR

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

Q.4

- a) Distinguish between flocculated and deflocculated system. (3)
- b) Discuss any Two method of emulsifier selection. (4)
- c) Write a short note on gel. (2)
- d) Discuss BIS Specification for cosmetics (3)

Q.5

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

OR

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

Q.6

- a) Discuss Ostwald ripening and crystal factor for suspension stability. (3)
- b) Describe Quality control tests for 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.
