

[Time: Three Hours]

[Total Marks: 80]

Please check whether you have got the right question paper

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

Q.1 Answer the following**20M**

- i. State advantages and disadvantages of pharmaceutical dispersion 3M
- ii. Write the importance of particle size determination in suspension. 2M
- iii. Enlist the physicochemical factors affecting skin penetration. 2M
- iv. Write a brief note on paste 3M
- v. Define suppository with example. 2M
- vi. Write four desirable features of pharmaceutical Aerosols. 3M
- vii. Discuss formulation consideration of aerosol system. 3M
- viii. Classify cosmetics 2M

Q.2 Answer the following**12M**

- i. Give importance of zeta potential and Schulz Hardy rule in formulation of suspension 4M
- ii. Define rheology and Elaborate on rheological aspects of semisolid. 4M
- iii. Discuss in detail about the components of valve assembly. 4M

OR

- iii Write a note on Dry Powder inhaler.

Q.3 Answer the following.**12M**

- i. Discuss the formulation of any one official preparation of suspension. 4M
- OR
- i Describe various quality control tests for suspensions.
 - ii. Give a brief idea about chemical penetration enhancer. 3M
 - iii. Discuss the desirable features of suppository bases. 3M
 - iv. Discuss with examples antioxidants used in cosmetics. 2M

Q4. Answer the following**12M**

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

Q5. Answer the following.

12M

i. Give an account of raw materials used in manufacture of emulsion.

3M

OR

i. Short note on any one method of preparation of emulsion.

3M

ii. Write a short note on ointment bases.

3M

iii. Write a short note on container of aerosol.

3M

iv. Give brief idea about sensorial evaluation of cosmetics.

3M

Q6. Answer the following.

12M

i. Discuss Ostwald ripening and crystal factor for suspension stability.

3M

ii. Describe large scale manufacturing of suppositories

3M

iii. Discuss in brief about meter dose valve.

3M

iv. Write the role of antioxidant in cosmetics with two example.

2M

OR

iv. Write the role of perfumes in cosmetics with two example
