Instruction to candidate:
Attempt over all 5 questions selecting one question from each unit.
All questions carry equal marks.

UNIT I
Q.1. Explain different types of additives used in formulation of liquid dosage forms with
suitable examples.

OR
Q.2. Describe manufacturing, packaging, and evaluation of suspensions with suitable
examples.

UNIT II
Q.3. Write in detail the manufacturing procedure, evaluation, and packaging of
suppositories with examples.

OR
Q.4. (i) Write the mechanism of drug penetration and discuss the factors influencing drug
penetration.
(ii) Describe the evaluations and packaging of ointments.

UNIT III
Q.5. Enlist the various components of blood. Explain in detail the human plasma protein
fraction.

OR
Q.6. Write short notes on –
(i) Plasma substitutes & their ideal requirements
(ii) Human fibrin foam
UNIT IV
Q.7. (i) Explain the pharmaceutical applications of aerosols. 7
(ii) Describe the manufacturing methods and packaging of pharmaceutical aerosols. 7

OR

Q.8. (i) Write the different evaluations for the ophthalmic preparations. 7
(ii) Describe in brief the formulation and packaging of eye drops. 7

UNIT V
Q.9. Explain the formulation, preparation and packaging of lipstick preparation. 14

OR

Q.10. Write short notes on:
(i) Shampoos 7
(ii) Structure and functions of skin 7