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f (a)	Explain the properties and selection of antioxidants and hydrocolloids in pharmaceutical preparations.	8
(b)	Write a note on organoleptic agents. OR	6
(c)	Describe advantages and disadvantages of hard and soft gelatin capsules. Describe manufacture and quality control tests for soft gelatin capsule.	4 10
(u)	Describe mandiactare and quality control tests for soft gendum capsule.	10
2.(a)	What are suspensions? Explain different types of additives used in the preparation of suspensions.	7
(b)	Discuss in brief the formulation of suspension. How will you evaluate the suspensions?	7
(0)	OR What are emulsions? Discuss in brief about the formulation of emulsions.	8
(c) (d) (e)	What are the different types of identification tests for emulsion? What are multiple emulsion?	4
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3.(a)	Explain in detail quality control tests for the uncoated tablets with the specifications stated in pharmacopeia?	7
(b)	Describe various problems encountered during tablet compression. OR	7
(c)	What do you mean by tablet coating? Write about types and rationale of different coating processes.	7
(d)	Describe in detail sugar coating process.	7
4.(a)	Explain environmental conditions required for the preparation of parenteral preparations.	7
(b)	Describe in brief the various tests which are required to be done for the evaluation of parenteral products.	7
(c)	OR Explain formulations and manufacture of ophthalmic ointments.	8
(d)	Explain quality control of eye ointments.	6
5.	Write in detail quality control tests of aerosols and how are the stability studies of aerosol formulations carried out. OR	14
(a) (b)	Explain various packaging materials used in primary and secondary packaging. Explain different types of packaging materials used in parenteral preparation.	4 10
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