

P38/HSC255/EE/20160522

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Draw a well labelled diagram of hair. Write note on hair weaving products. 5
 - b) Explain in detail preformulation study for parenteral products. 5
 - c) Write note on:
 - i) Aseptic area
 - ii) Quesant area 5
 - d) Differentiate between cold cream and vanishing cream. 5
 - e) Write in detail formulation and evaluation of Nail Lacquers. 5
2. Solve any **four** sub-questions.
 - a) What are ideal characteristics of eye products. Add note on pigments; colors used in formulation. 5
 - b) Write note on:
 - i) Shaving cream
 - ii) After shave lotion 5
 - c) Explain in detail skin bleaching and skin lightning agents. 5
 - d) Define the term sterilization. Describe any two methods in detail. 5
 - e) Write a note on formulation and evaluation of lipsticks. 5

3. Solve any **four** sub-questions.
- a) Explain total parenteral nutrition and use as purpose of large volume parenterals. 5
 - b) Classify packaging material used in parenterals. Explain in detail plastic materials in parenterals. 5
 - c) Write short note on: Face Powder and Foundation Cream. 5
 - d) Write a note on Laminar air flow and HEPA filters. 5
 - e) Write a note on GMP guidelines for parenterals formulation. 5
4. Solve any **four** sub-questions.
- a) Define and classify shampoo. Write note on anti dandruff shampoo. 5
 - b) Write a note on antiperspirants and deodorants. 5
 - c) Define Lipsticks. Add note on types of color pigments and dye used in Lipsticks. 5
 - d) Write a note on contact lenses and its ideal characteristics. 5
 - e) Describe in detail ocular drug delivery system with formulating. 5

