

[Total No. of Questions - 10] [Total No. of Printed Pages - 2]  
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**M. Pharmacy 1st Semester Examination**

**Pharmaceutical Cosmetics & Herbal Drug Analysis**

**MP-311**

**Time : 3 Hours**

**Max. Marks : 90**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** (i) The question paper contains ten questions in three sections A, B & C.

(ii) Attempt any two questions from section A.

(iii) Attempt any five questions from each section B & C.

**SECTION - A**

*Attempt any two questions and each question carry equal marks.*

1. What do you understand by volumetric analysis? Discuss the complexometric titrations.
2. Discuss the quality control of tablets, capsules and parenteral dosage forms.
3. Describe the quantitative and physico-chemical methods of quality control of crude drugs. (2×15=30)

**SECTION - B**

*Attempt any five questions and each question carry equal marks.*

4. Discuss the acid base titrations.
5. Discuss the differential thermal analysis.
6. Write a note on pM indicators.

2

16454

7. Write a brief note on argentometric titrations.

8. Discuss the quality control of packing materials.

9. Write a note on conductometric titrations. (5×8=40)

**SECTION - C**

*Attempt any five questions and each question carry equal marks.*

10. Write short note on any five of the followings:

(a) Primary and secondary standard substances.

(b) Quality control of parenteral preparation.

(c) Organoleptic methods of quality control of crude drugs.

(d) Potentiometry.

(e) Safety and legislation for cosmetic products.

(f) Applications of non-aqueous titrations.

(g) Quality control of dental products. (5×4=20)