[Total No. of Questions - 10] [Total No. of Printed Pages - 2] (2123)

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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 answerbook (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 titrimetric analysis? Discuss the redox titrations.
- 2. Discuss the note on quality control of lipstics, skin care products and dental products.
- 3. Write a brief note on quality control of crude drugs. (2×15=30)

SECTION - B

Attempt any five questions and each question carry equal marks.

- 4. Discuss the complexometric titrations.
- Discuss the principle and pharmaceutical applications of potentiometry.

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- 6. Write a note on non-aqueous titrations.
- 7. Write a brief note on gravimetric analysis.
- 8. Discuss the identification and quantitative determination of emulsifiers and stabilizers in pharmaceutical formulations.
- 9. Write a brief note on polarography. (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) Diazotization titrations.
 - (b) Quality control of containers and closers.
 - (c) Thermogravimetric analysis.
 - (d) Quantitative microscopic methods of quality control of crude drugs.
 - (e) Safety and legislation for cosmetic products.
 - (f) Argentometric titrations.
 - (g) Acid base indicators. (5×4=20)