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(2125)

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M. Pharmacy 1st Semester Examination
Pharmaceutical, Cosmetic and 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) Answer one question out of two questions carrying twenty five marks. (Section A)
(ii) Answer three questions out of four questions carrying ten marks. (Section B)
(iii) Answer seven questions out of nine questions carrying five marks. (Section C)

SECTION - A

1. Discuss quality control techniques for herbal drugs under following heads.
 - (i) Factors affecting herb quality.
 - (ii) Development of standardization parameters. (25)
2. Discuss extraction methods for herbal drugs and different chromatographic techniques for separation and identification of active constituents. (25)

SECTION - B

3. Discuss parameters for quality control of tablets and capsules. (10)

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4. Write an exhaustive note on identification & quantitative determination of preservatives and antioxidants. (10)
5. Discuss quality control parameters for hair care products and color cosmetics. (10)
6. Write a detailed note on safety and legislations for cosmetic products. (10)

SECTION - C

7. How will you carry out non-aqueous titration of halogenated salts of bases? (5)
8. Explain how will you detect end point in different types of redox titrations. (5)
9. Classify reactions in titrimetric analysis. (5)
10. Write procedure for preparations of standard solutions of iodine and potassium permanganate. (5)
11. Discuss different types of titrations in complexometry. (5)
12. In complexometry what are masking and demasking agents? Explain their role. (5)
13. How will you prepare standard solution of sodium nitrite? Discuss assay of any drug of your choice by diazotization method. (5)
14. Write a note on simple polarography and classical d.c. polarography. (5)
15. Explain static and dynamic thermogravimetry & methodology involving thermogram. (5)