[Total No. of Questions - 15] [Total No. of Printed Pages - 2] (2064)

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M. Pharmacy 2nd Semester Examination Drug & Excipient Analysis MP-323

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: All Sections are compulsory.

SECTION - A

Attempt any ONE question.

- 1. Give the principle and procedure used in the analysis of (any TWO)
 - (a) Vitamin A
 - (b) Vitamin B₁
 - (c) Vitamin C.
- 2. Write the special detail on analysis of pharmaceutical preparations and dosage form containing ergot alkaloids. (25×1=25)

SECTION - B

Attempt any THREE questions.

3. Write the details of method validation parameters for GC.

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- 4. Give principle and procedure involved in the use of reagents (any TWO)
 - (a) PDACA
 - (b) 2, 3, 5-Triphenyltetrazolium salt
 - (c) Carr-Price reagent
- 5. Describe the analytical method for determination of hydroxyl group.
- 6. Describe the method for determination of amine and methoxyl. (3×10=30)

SECTION - C

Attempt any SEVEN questions.

- 7. Write the principle and procedure of Folin Ciocalteu reagent.
- 8 Give the names of methods and reagents used in the analytical determination of local anaesthetic.
- 9. Write a short note on analysis of non- metals.
- 10. Highlight the advantages and concept of analytical method development for drugs and excipients.
- 11. How glycone part of glycoside is analysed in pharmaceutical dosage form?
- 12. Write the principle and method of nephelometry used for quantitative analysis of drugs.
- 13. Explain the principle and method of fluorimetry.
- 14. Enumerate the methods involved in analysis of diuretics.
- 15. Explain a role of particle size in dosage form development. Name various methods used in determination of particle size. (5×7=35)