

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D (Sem.-3)
PHARMACEUTICAL ANALYSIS
Subject Code : 3.2
M.Code : 71435

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks.
2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Q1. What is the function of regulatory control in pharmaceutical analysis?
- Q2. Discuss Ilkovic's equation in polarography.
- Q3. What types of electrodes used in Amperometric titration?
- Q4. Define bathochromic shift.
- Q5. Define X-ray diffraction.
- Q6. Explain fragmentation.
- Q7. Define DSC and DTA.

SCECTION-B

- Q8. Discuss fundamental laws of photometry.
- Q9. What are the factors affecting fluorescence intensity?

- Q10. What information can be obtained from IR spectroscopy for structure elucidation?
- Q11. Discuss concept of statistical quality control.
- Q12. What is the principle of UV spectroscopy? Discuss its applications.
- Q13. Explain significance of reference electrodes and indicator electrode in potentiometer.
- Q14. Explain various factors affecting column efficiency.
- Q15. Give an account on Gel filtration and affinity chromatography.

SECTION-C

- Q16. Describe theory and instrumentation of gas chromatography. Explain typical gas chromatogram,
- Q17. Give an account on theory, instrumentation and applications of atomic absorption spectroscopy.
- Q18. Discuss theory, nebulization, flame and flame temperature, interferences in Flame photometry.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.