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Roll No.														Total No. of Pages :	02
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Total No. of Questions: 22

B.Pharma (2017 & Onwards) (Sem.-1)
PHARMACEUTICAL ANALYSIS-I

Subject Code : BP-102T M.Code : 74645

Time: 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and students have to attempt any SEVEN questions.

SECTION-A

Explain briefly:

- Give the primary and secondary standards for: sodium thiosulphate and NaOH.
- Q2. What is specific conductance? How is it related to observed conductance?
- Q3. What is pK_a? What is its importance?
- Give chemical reactions for standardization of sodium nitrite.
- Q5. Explain glass electrode in brief.
- Q6. What is specific conductance?
- Q7. Calculate and express the result to correct number of significant figures : [(205.0 + 10.025) × 0.0500] + 10.0124
- Give pH range of phenolphthalein and methyl orange.
- Define Chelating Agent and sequestering agent.
- Q10. Why is water boiled before preparing sodium thiosulphate solution?

1 | M-74645 (S29)-254







SECTION-B

- Q11. Give a detailed account of titrants, solvents, indicators and chemistry involved in titration of any weakly basic drug by non-aqueous titrimetry.
- Q12. Classify argentimetric titrations. Discuss the chemical equations, titration conditions and applications of Mohr's method.
- Q13. What are potentiometric titrations? Discuss in detail various types of potentiometric titration curves.

SECTION-C

- Q14. Explain calibration of conductance cell.
- Q15. What is a dropping mercury electrode? Explain its construction and working.
- Q16. Explain the working of a calomel electrode.
- Q17. How can you minimize errors in pharmaceutical analysis?
- Q18. What type of conductometric titration curve is obtained for NaOH vs HC1?
- Q19. Discuss the concept and chemistry involved in permanganate titrations.
- Q20. Draw a polarographic wave and explain its various components.
- Q21. Discuss in brief the factors affecting the solubility of precipitates.
- Q22. Taking appropriate examples, explain masking and demasking agents.

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.

2 | M-74645 (S29)-254

