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| 1 | Write the principle involved in the volumetric method. | 2 |
| 2 | What are the fundamental requirements of titrimetric method? | 2 |
| 3 | Define accuracy and precision. | 2 |
| 4 | What is a primary standard and a secondary standard? | 2 |
| 5 | Write about the solvents used in non-aqueous titration. | 2 |
| 6 | What is a Lewis acid and Lewis base? Give one example of each. | 2 |
| 7 | Mention the method of preparation and uses of hydrogen peroxide. | 2 |
| 8 | Give examples for mixed and universal indicators. | 2 |
| 9 | Write the purpose of combination antacid therapy. | 2 |
| 10 | What do you understand by Radio-pharmaceuticals? | 2 |

PART – B (5 x 10 = 50 Marks)

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| 11 | (a) Discuss in brief about the neutralization curves. | 5 |
| | (b) Explain the theories of indicator. | 5 |
| 12 | What are the different methods of expressing concentrations of solutions? | 10 |
| 13 | Give the classification of errors and write the measures to minimize the errors. | 10 |
| 14 | Write about antimicrobials. | 10 |
| 15 | (a) Write a note on limit test for arsenic. | 7 |
| | (b) What is the role of solvents in limit test for iron? | 3 |
| 16 | What are essential trace elements? Write the physiological role of iron and copper. | 10 |
| 17 | What are the anti-caries agents? Discuss the role of fluorides as anti-caries agents. | 10 |
| 18 | (a) Define and classify pharmaceutical aids. | 5 |
| | (b) Enumerate the properties of radiation emitted by commonly used radionuclides. | 5 |
