

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)****2 X 20 = 40 Marks**

- (a) Write the preparation, standardization and application of Karl – Fischer reagent  
(b) Explain dead stop end point technique in amperometry
- (a) Write about sodium nitrite titrations with examples  
(b) Explain theory of acid – base titrations
- (a) Discuss the quality control parameters of secondary packaging materials used in pharmaceuticals  
(b) Explain quality control of dental products

**SHORT ESSAY (Answer any FIVE)****5 X 10 = 50 Marks**

- What are ligands and the types of ligands explain back titrations with EDTA sodium
- Discuss the principle and application of potentiometry
- What are hair care products? How do they differ from skin care products
- Add a detail note on estimation of weakly acidic substances by non – aqueous titrations
- Write notes on metal – ion indicators
- Explain quality control of crude drugs

**SHORT NOTES****2 X 5 = 10 Marks**

- What are primary and secondary standards, give examples, what are the properties of an ideal primary standard
- What are colour change preparations

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**LONG ESSAY (Answer any TWO)****2 X 20 = 40 Marks**

1. How do turbidimetry and nephelometry differ in their technique? With the help of sketches explain their instrumentation. What are their applications?
2. Give the theory of fluorescence. Describe the components of a typical fluorimeter. Write the methods of assay of any two drugs involving fluorimetry
3. What is the principle of colorimetric estimation of drugs? Giving examples describe the methodology of assay of any three importance colorimetric reagents

**SHORT ESSAY (Answer any FIVE)****5 X 10 = 50 Marks**

4. Name a few analgesics drugs and write down the methods of assays of any two of them
5. Give the principles of any three methods available for estimation of alkaloidal drugs
6. How are drugs containing carboxylic acid and methoxyl groups estimated give examples
7. Explain how F C and PDAB reagents are useful as chromogenic reagents
8. With the help of a sketch, describe a flame photometer
9. Write about radiochemical methods of analysis

**SHORT NOTES****2 X 5 = 10 Marks**

10. How do you determine the particle size of a drug powder
11. What is the application of Carr – price reagent? Explain with relevant example

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**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. Discuss cleaning and personnel validation of pharmaceutical factory
2. Elaborate applications of computer in quality control laboratory
3. Discuss the microbial assay of  $\beta$  - Lactam antibiotics

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Discuss the principal and procedure of the assay of oxytocin
5. Highlight pyrogens chemistry and properties
6. Explain the various chemical tests carried out to assess the quality of potable water
7. Write notes on biological assay of plague vaccine
8. Enumerate the salient features of good laboratory practices
9. Discuss warehouse and vendor audit

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. What is sterility testing and interpretation
11. Define validation and classify them

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