

Duration : 2<sup>1/2</sup> Hours

Max Marks : 60

- N.B:** 1. All question carry equal marks.  
2. Figures to the right indicate full marks.  
3. Use of non-programmable calculator is allowed.

- Q.1**    **A.**    Attempt any TWO of the following: **08**  
i.    How are finished pharmaceutical products standardised?.  
ii.    Describe the role of FDA.  
iii.    Write a short note on Pharmacopiea  
iv.    State the advantages and disadvantages of parenteral dosage forms
- B.**    Attempt any ONE of the following: **04**  
i.    What are liquid dosage forms? Give examples of same  
ii.    Define drugs. How are drugs classified?
- Q.2**    **A.**    Attempt any TWO of the following: **08**  
i.    Explain the term bioavailability and give its importance.  
ii.    Explain Impurity profiling of drugs.  
iii.    Write a short note on Microbiological assays  
iv.    What is proximate analysis? Give its importance.
- B.**    Attempt any ONE of the following: **04**  
i.    How are polymers used in pharmaceuticals?  
ii.    Write a short note on limit test for chloride.
- Q.3**    **A.**    Attempt any TWO of the following: **08**  
i.    How are traces of alcohol detected blood?  
ii.    Describe the test for detection of arsenic in stomach wash  
iii.    Describe the detection of benzodiazepines in blood and tissue  
iv.    What are hallucinogens? Explain the test for identification of cannabis
- B.**    Attempt any ONE of the following: **04**  
i.    Explain the statement: Analytical Chemistry is an important part of Forensic studies  
ii.    Write a short note on Narcotics

- Q.4 A. Attempt any TWO of the following: 08**
- i. Write a short note on estimation of boric acid in face powder**
  - ii. Describe the estimation of pyrogallol in hair tonic**
  - iii. What are cosmetics? Explain the importance of quality control in cosmetics.**

- iv. Write a note on additives in cosmetics**
- B Attempt any ONE of the following: 04**
- i. Explain the method for estimation of salicylic acid in hair tonics.**
  - ii. What are lotions? Add a note on chloroform soluble materials in lotions**

- Q.5 Attempt ANY FOUR of the following 12**
- a. Define Excipients. Give examples of excipients.**
  - b. How are impurities introduced in raw materials?**
  - c. Describe the assay of enzyme containing substances**
  - d. Write a short note on Bioequivalence.**
  - e. What is Analytical Toxicology? Give its applications**
  - f. Describe the method for detection of blood stains in forensics**
  - g. Define deodorants. Describe the estimation of chlorides in deodorants.**
  - h. Give the composition of lipstick. Add a note on lakes and fillers in lipsticks**
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