

- Q1. Give short reasons for the below 10
- a, Why hydrogen peroxide is used as precursor gas in plasma sterilization.
 - b, What are the causes of contamination in a clean room.
 - c, During iontophoresis, for efficient transport of a +ively charged drug, the reservoir must be kept under anode/cathode
 - d, What properties of lactides make them useful for short/long term devices
 - e, What is the function of HEPA filter.
 - f, Give three steps involved in phagocytosis
 - g, Give the characteristic properties of Sutures
 - h what is fibrinolysis.
 - i. Define tacticity.
 - J. Why polyurethanes are used as heart valves
- Q2. Explain briefly any five of the following. 12.5
- a, Give the application of poly lactides in DDS.
 - b, What is site specific DDS. Elaborate giving an example.
 - c, How is air velocity maintained in a clean room and what is its significance.
 - d, What is the application of Ziegler Natta catalysts for biomedical applications..
 - e How are acrylates useful as biomaterial
 - f. Mode of action of Eto sterilization and its disadvantages.
- Q3. Explain the following 17.5
- a. What are the various pathways involved in transdermal drug delivery? How the various physical and chemical enhancers help in drug penetration. 3 + 7.5
 - c. How the rate of drug release is modulated in osmotic pump technology and how it is different from feedback regulated DDS 5+2
- Q4. Explain the following 10
- a, Role of QC , QA and PA in GMP regulation
 - b, Various records and their keeping
 - c, Misbranding labeling and storage integrity
 - d, GMP requirement of warehouse storage