



- 10) If one material delivery is made up of different batches: \_\_\_\_\_.
- Each batch must be considered as separate for sampling.
  - random batch must be considered as separate for sampling
  - any one batch must be considered as separate for sampling
  - alternative batch must be considered as separate for sampling
- 11) \_\_\_\_\_ are the sterile pharmaceutical product.
- tablet
  - Injectable
  - Capsule
  - Syrup
- 12) \_\_\_\_\_ is the biological product.
- IL-2
  - Insulin
  - anti snake venom
  - all of these
- 13) DNA bar-coding identifies \_\_\_\_\_.
- species
  - genus
  - family
  - order
- 14) Continuous cell lines are \_\_\_\_\_.
- anchorage independent
  - makes multilayer
  - grows for infinite time
  - all of these

- Q.2 A) Define and explain any four of the following. 08**
- Pathogens
  - Thermotolerant spore count
  - Quality Manual
  - Clinical trials
  - Class II Biosafety
- B) Write notes. (Any Two) 06**
- Fecal indicator bacteria
  - ISO
  - Manufacture of herbal medicines
- Q.3 A) Answer the following questions. (Any Two) 08**
- Give brief introduction of milk standards.
  - Explain in brief Good Hygienic Practices.
  - Describe GMP for Pharmaceutical products.
- B) Answer the following questions. (Any One) 06**
- Write a note on cell banking principle and its importance.
  - Explain in detail quality standards of packaged drinking water.
- Q.4 A) Answer the following questions. (Any Two) 10**
- Take an account of various testing methods adopt in dairy products.
  - Explain in detail GMP of biological products.
  - Describe conventional and modern cell characterization methods.
- B) Answer the following questions. (Any One) 04**
- Explain microbial contaminants and potential biohazards.
  - Define and explain any two dairy products.
- Q.5 Answer the following questions. (Any Two) 14**
- Explain in detail HACCP Food safety Management Systems.
  - Describe in detail Chemical hazards in drinking-water.
  - Write an essay on water treatment methods.