

- c) high-efficiency particular absorbance d) none of these
- (ix) Choose correct option-HEPA is also able to capture some viruses and bacteria which are
 a) 0.01 μ m b) 0.03 μ m
 c) 0.3 μ m d) 0.05 μ m
- (x) Select the correct option- The three factors that control the conductivity of an electrolyte are:
 a) Specific gravity, density, and volume b) Concentrations, the material in solution, and temperature
 c) Color index, turbidity, and temperature d) Hydrogen ion concentration, temperature, and pressure
- (xi) Select the correct option- Which of the following is not an advantage of Laminar flow burner used in Flame photometry?
 a) Noiseless b) Stable flame for analysis
 c) Efficient atomization of sample d) sample containing two or more solvents can burned efficiently
- (xii) Choose correct option What do hot air ovens use to sterilize equipment and materials?
 a) Convection b) Insolation
 c) Conduction d) heated shelves
- (xiii) Choose correct option What is the common temperature used in autoclaves?
 a) 109 degree b) 121 degree
 c) 150 degree d) 100degree
- (xiv) Write the correct option-What is the principle of centrifugation?
 a) Size reduction principle b) Filtration principle
 c) Evaporation principle d) Sedimentation principle
- (xv) Write the correct option-What are factors that affect high-speed centrifuges?
 a) Pressure and temperature b) Concentration and speed
 c) Speed and temperature d) Pressure and speed

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Compare the Lewis concept of pH and Arrhenius concept of pH (3)
3. Osmolarity is an important physical phenomenon which have major role in biological system- explain with proper example (3)
4. Discuss the Importance of pH in biochemical test (3)
5. Write the procedure of faeces sample collection (3)
6. Justified the acid dissociation constant play an important role in pH scale. (3)

OR

Write the limitation of Arrhenius theory. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. State that, the water behave like as an "ampholyte". (5)
8. Define the principle of autoanalyzer (5)
9. Write the procedure of urine sample collection (5)
10. Explain the principle of vacutainer (5)
11. Write down the working principle of hot air oven (5)
12. Justify the importance of Beer-Lambert's law in case of autoanalyzer (5)

OR

Classify the different type of autoanalyzer (5)
