

**Date 28/12/2020**

**Oriental College of Pharmacy  
Microbiology Practical Questions(Viva-Voce)**

1. What is sterilization? Classify different methods of sterilization?
2. What are various techniques used for isolation of pure culture? Explain poured plate method?
3. Explain principle and procedure of determination of amylase activity ?
4. Name the parts and their function of compound microscope?
5. Explain principle and procedure of determination of gelatinase activity?
6. Explain the difference between Extracellular and Intracellular enzymes of Micro-organism?
7. What are sources of contamination in aseptic area?
8. Explain the Laminar Air Flow system?
9. Explain principle and procedure of acid fast staining?
10. Explain principle and procedure of negative staining?
11. Explain principle and procedure of sterility test of creams?
12. What is the principle of the autoclave?
13. How will you sterilize the following.
  - a) Culture media
  - b) Fixed Oil
  - c) Aseptic room
  - d) Solutions
  - e) Powders
  - f) Petri plate
14. Write the advantages and disadvantages of hot air oven.
15. Which filter is used for separation of bacteria and why?
16. Name different methods of sterilization.
17. How are the thermolabile substances sterilized?
18. How do you test the efficiency of autoclave and hot air oven?
19. What do you mean by aseptic technique?
20. What is the use of refrigerator and incubator?

21. Differentiate between incubator and hot air oven.
22. What is DOP test?
23. What precautions are required for handling autoclaves?
24. What are the advantages of oil immersion lens?
25. What are the different types of microscope?
26. How will you calculate total magnification of a compound microscope?
27. Why is cedar wood oil added on slide under oil immersion objective?
28. How will you take care of a compound microscope?
29. What are the different applications of autoclave?
30. Explain the use and care of centrifuge.
31. Write the advantages and disadvantages of the membrane filter.
32. Write the applications of following.
  - a) Zone reader
  - b) Membrane filter
  - c) HEPA filter
  - d) Colony counter
  - e) Anaerobic jar