

B.Pharm. Second Year (CBCS Pattern) Sem-III
BP 303T - Pharmaceutical Microbiology

P. Pages : 2

Time : Three Hours



GUG/W/22/10886

Max. Marks : 75

Notes : 1. All questions are compulsory.

1. Multiple Choice Questions:-

20

- 1) Penicillin was discovered by-
 - a) Robert Koch
 - b) Landsteiner
 - c) Alexander Fleming
 - d) Edward Jenner
- 2) Study of Fungi is known as-
 - a) Mycology
 - b) Parasitology
 - c) Virology
 - d) Bacteriology
- 3) Roll tube method of isolation used for isolation of-
 - a) Aerobes
 - b) Stringent anaerobes
 - c) Both a & b
 - d) None of them
- 4) Frits Zernike discovered the microscope
 - a) Fluorescence
 - b) Phase contrast
 - c) Electron
 - d) Compound
- 5) Acid-fast staining is also known as –
 - a) Negative staining
 - b) Gram staining
 - c) Ziehl-Neelson staining
 - d) None of the above
- 6) Cocci, bacilli, vario are
 - a) Unicellular
 - b) Multicellular
 - c) Acellular
 - d) All of the above
- 7) Example of Acellular organisms are-
 - a) Bacteria
 - b) Viruses
 - c) Protozoa
 - d) Fungi
- 8) Living and non-living organism and their differentiation is describe by-
 - a) Roger Bacon
 - b) Aristotle
 - c) Louis Pasteur
 - d) Fracastorius
- 9) Nucleus is present in-
 - a) Prokaryotic cell
 - b) Eukaryotic cell
 - c) Both a and b
 - d) None of these
- 10) Freezing in liquid nitrogen at-196°C is called as-
 - a) Paraffin Method
 - b) Cryopreservation
 - c) Sub-culturing
 - d) Both a and b
- 11) Hot air oven is example of-
 - a) Moist heat
 - b) Dry heat
 - c) Both a and b
 - d) None of these
- 12) In acid fast staining counter stain is
 - a) Methylene blue
 - b) Alcohol
 - c) Crystal violet
 - d) Carbol fuchsine

- 13) Red heat is used for sterilization of-
 - a) Straight wires
 - b) Bacterial loop
 - c) Nichrome wire loop
 - d) All of these
- 14) Phenol coefficient indicates the ----- of a disinfectant.
 - a) Effectiveness
 - b) Purity
 - c) Both a & b
 - d) None of the above
- 15) Which is the indirect method for measurement of cell mass -----
 - a) Plate count technique
 - b) Breed method
 - c) Dry weight measurement
 - d) Turbidimetric method
- 16) Exponential phase is also known as -----
 - a) Log phase
 - b) Lag Phase
 - c) Stationary phase
 - d) None of these
- 17) Best autoclaving is achieved at-
 - a) 121°C for 15 min
 - b) 120°C for 1 hrs
 - c) 110°C for 2 hrs
 - d) 100°C for 3 hrs
- 18) Paul Ehrlich coined the term-
 - a) Physiotherapy
 - b) Hydrotherapy
 - c) Chemotherapy
 - d) All of the above
- 19) Optimum temperature of growth for saprophytic fungi is -----
 - a) 30-37°C
 - b) 20-30°C
 - c) 40-50°C
 - d) 10-20°C
- 20) Vitamin B₁₂ assay is carried by -----
 - a) Turbidity method
 - b) Cylinder plate method
 - c) Both
 - d) None of these

- 2. Solve any two:-** **10x2**
=20
- 1) Define Microbiology; give its history, scope and importance.
 - 2) Explain sterility testing of pharmaceutical product as per IP.
 - 3) Define Sterilization. Discuss Principle, working and Application of autoclave.

- 3. Solve any seven:-** **5x7**
=35
- 1) Explain Classification of Fungi
 - 2) Give the contribution of Louis Pasteur.
 - 3) Explain in short factor affecting microbial spoilage.
 - 4) Write a note on laminar air flow.
 - 5) Explain sources of contamination in aseptic area.
 - 6) Write note on physical method of sterilization.
 - 7) Explain in detail preservation method for pure culture.
 - 8) Explain phenol as disinfectant.
 - 9) Write a short note on Gram staining.
