

**B. PHARM.**  
**THIRD SEMESTER**  
**PHARMACEUTICAL MICROBIOLOGY**  
**BP303T [REPEAT]**  
(USE OMR FOR OBJECTIVE PART)

**SET**  
**A**

Duration : 3 hrs.

Full Marks : 75

**( PART-A: Objective )**

Time : 30 min.

Marks : 20

Choose the correct answer from the following:

1 × 20 = 20

1. Optimum temperature of growth for saprophytic fungi is \_\_\_\_\_.  
a. 30-37°C  
b. 20-30°C  
c. 40-50°C  
d. 10-20°C
2. Parvo virus is \_\_\_\_\_.  
a. DNA virus  
b. RNA virus  
c. Both (a) and (b)  
d. None of these
3. Reo virus is an example of \_\_\_\_\_.  
a. Double stranded RNA virus  
b. Double stranded DNA virus  
c. Single stranded virus  
d. Single stranded RNA virus
4. Iodophor antiseptic is \_\_\_\_\_.  
a. Peridex  
b. Betadine  
c. Hi Phene  
d. Ioprep
5. Example of skin disinfectant is \_\_\_\_\_.  
a. Chlorhexidine in Sulphuric acid  
b. Chlorhexidine in ethanol  
c. Quats in ethanol  
d. Quats in Sulphuric acid
6. Grade B air borne particle is based on classification of \_\_\_\_\_.  
a. ISO 9  
b. ISO 3  
c. ISO 5  
d. ISO 7 and 8
7. Organism used for Streptomycin assay is \_\_\_\_\_.  
a. Bacillus cereus ATCC 11778  
b. Bacillus subtilis ATCC 6633  
c. Bacillus subtilis ATCC 3366  
d. Bacillus cereus ATCC 6633
8. In assay of vitamin B<sub>12</sub> which type of indicator is used?  
a. Thymol blue  
b. Bromocresol blue  
c. Bromophenol blue  
d. Bromothymol blue
9. Microbial contamination from water occurs in formulation by \_\_\_\_\_.  
a. Xanthomonas  
b. Micrococci  
c. E. coli  
d. Bacillus
10. Accelerated stability study is for \_\_\_\_\_.  
a. 1 year  
b. 6 years  
c. 6 months  
d. 1 month

11. The bacterial culture prepared by pure culture method is
  - a. Inoculum
  - b. Suspension
  - c. Dilution
  - d. None of these
12. Isolation is...
  - a. Purification of culture
  - b. Introduction of inoculum
  - c. Separation of a single colony
  - d. To grow microorganisms on surfaces
13. The method in which the cells are frozen dehydrated is called....
  - a. Pasteurization
  - b. Desiccation
  - c. Disinfection
  - d. Lyophilisation
14. Nutrient broth is ....
  - a. Solidified media
  - b. Liquid media
  - c. Semisolid media
  - d. Liquid crystalline media
15. An example of an indicator medium
  - a. Nutrient medium
  - b. Nutrient broth
  - c. Mac Conkey agar medium
  - d. Czapeckdox medium
16. Exponential phase is also known as ....
  - a. Lag phase
  - b. Log phase
  - c. Stationary phase
  - d. None of these
17. Obligate anaerobes can grow in....
  - a. Presence of CO<sub>2</sub>
  - b. Absence of CO<sub>2</sub>
  - c. Presence of oxygen
  - d. Presence or absence of oxygen
18. \_\_\_\_\_ technique is part of the pure culture techniques used to isolate the pure culture.
  - a. Spread plate method
  - b. Pour plate
  - c. Lyophilisation
  - d. Both A and B
19. Microscope was developed in which year?
  - a. 1762
  - b. 1672
  - c. 1763
  - d. 1673
20. Filament hook and basal body are parts of....
  - a. Capsule
  - b. Pili
  - c. Flagella
  - d. Fimbriae

**( PART-B: Descriptive )**

Time : 2 hrs. 30 min.

Marks : 35

*[ Answer any seven (7) questions ]*

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|--|-------------|
| 1. Write notes on reproduction of fungi.   | 5           |
| 2. What are disinfectants? Write their classifications?  | 1+4=5       |
| 3. What are the different sources of contamination in an aseptic area?   | 5           |
| 4. Explain the application of cell cultures in Pharmaceutical Industry and Research.                                 | 5           |
| 5. What are antiseptics? Write its ideal properties. What are the factors influencing disinfectants and antiseptics? | 1+2+2<br>=5 |
| 6. What is gram staining and write its procedure?  | 2+3=5       |
| 7. Write a note on Bacteria growth curve   | 5           |
| 8. Explain the pour plate method.  | 5           |
| 9. Write down the role and application of microbiology in different fields.  | 5           |

**(PART-C : Long type questions)**

*[ Answer any two (2) questions ]*

1. What is aseptic area? Explain the designing of aseptic area. 1+9=10
2. Briefly explain the structure of bacteria. 10
3. Explain the factors affecting spoilage. 10