SET A

B. PHARM.
THIRD SEMESTER
PHARMACEUTICAL MICROBIOLOGY
BP303T [SPECIAL REPEAT]

[USE OMR SHEET FOR OBJECTIVE PART]

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. Idophor 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_{12} 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. Xanthamonas
   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 CO2
    b. Absence of CO2
    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

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PART-B :Descriptive

Time : 2 hrs. 30 min. **Marks : 35**

[Answer any seven (7) questions]

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=5
6.	What is gram staining and write it 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

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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

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