

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY
LONERE - RAIGAD - 402 103
Winter Semester Examination - Dec - 2019

Branch: B. Pharm.

Semester: III

Subject: Pharmaceutical Microbiology

Subject Code: BP 303T

Marks: 75

Date: 21/12/2019

Time: 3hrs

Instructions: i) All questions are compulsory
ii) Figures to the right indicate full marks
iii) Draw the diagrams or flow charts wherever necessary.

Q. No.1 Multiple Choice Questions (MCQs) = 20 x 1 = 20
(Answer all the questions)

01. Who is Father of Medical Microbiology?

- a) Louis Pasteur b) Alexander Fleming c) Dugger d) None of the above

02. _____ is mainly present in prokaryotic cell

- a) Mitochondria b) Endoplasmic reticulum c) Golgi apparatus d) Mesosomes

03. A binocular microscope has _____

- a) Two objectives b) Two eyepieces c) Two condenser d) Two mirror

04. Phycolgy is study of _____

- a) Algae b) Fungi c) Molds d) Protozoa

05. In culture collection, NCIB stands for

- a) National Collection of Industrial Bacteria b) National Centre of Industrial Bacteria
c) National Centre of Imported Bacteria d) National Culture of Imported Bacteria

06. Microorganism in natural environment usually occur as _____ culture

- a) Bacterial b) Pure c) Mixed d) Fungal

07. The stain mainly used negative staining

- a) Nigrosin b) Crystal Voilet c) Methylene blue d) ZNCF

08. Bacterial cell wall is made up of

- a) chitin b) cellulose c) dextran d) peptidoglycan

09. Pasteurization is carried out at

- a) < 100°C b) >100°C c) At 100°C d) None of these

10. Red heat used for sterilization of

- a) Glass slide b) Glass syringe c) Surgical dressing d) Nichrome wire loop

11. Viruses are

- a) Obligate parasites b) free living c) both a and b d) none of these

12. Viruses that attacks bacteria are called

- a) lysophage b) bacteriophage c) virophage d) none of these

13. Most important surface active disinfectant are

- a) Anionic b) Cationic c) Non-ionic d) Amphoteric

14. Efficiency of HEPA filter is _____ %

- a) 99.97 b) 88.87 c) 90.97 d) 98.79

15. DOP test is used for validation of _____

- a) HEPA filter b) Membrane filter c) Aseptic room d) Autoclave

16. Test microorganism used for microbial assay of streptomycin is

- a) Bacillus pumilus b) Styphalococcus aureus c) Bacillus subtilis d) none of these

17. Dimorphism is characteristic of _____

- a) Bacteria b) Algae c) Viruses d) Fungi

18. Mordant used in grams staining is

- a) Safranin b) ethanil c) crystal violate d) grams iodine

19. The organ of locomotion of bacteria is

- a) flagella b) slime c) capsule d) fimbriae

20. Which part of animal virus develops from host cell membrane?

- a) helical b) envelop c) DNA d) RNA

Q. No.2 Long Answers (Answer 2 out of 3) = 2 x 10 = 20

- A] Classify sterilization methods and explain in detail moist heat sterilization
- B] Give the classification of disinfectants and write a note on evaluation of disinfectant
- C] Explain in detail structure of bacteria

Q. No.3 Short Answers (Answer 7 out of 9) = 7 x 5 = 35

- A] Explain growth curve of Bacteria
- B] Write scope & applications of pharmaceutical Microbiology
- C] Write note on IMViC test
- D] Enlist & explain different type of culture media
- E] What are the sources of contamination in an aseptic area? Give methods of prevention
- F] Explain lytic cycle in detail
- G] Explain the assay of Vitamin B₁₂
- H] Enlist and explain pure culture techniques
- I] Enlist types of spoilage and give the factors affecting microbial spoilage

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