

Pharmaceutical Microbiology

B. Pharm. Second Internal Examination (2020-2021)

Date: 17/08/2020

Semester :3

Subject: Pharmaceutical Microbiology (BP 303T)

Instructions

All questions are compulsory

Each question carry 1 mark

*Required

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1. Email address *

2. virus contains *

Mark only one oval.

- DNA
- RNA
- Either DNA or RNA
- None

3. Viruses are cultivated in *

Mark only one oval.

- Living Cells
- Dead Cells
- Depends on virus to virus
- None of these

4. Virus replication is characterized by *

Mark only one oval.

- Lytic cycle
 Lysogenic cycle
 Both
 None

5. Bacteriophage is *

Mark only one oval.

- RNA Virus
 DNA virus
 Both
 None

6. Which counterstain is used in Gram staining *

Mark only one oval.

- Safranin
 Crystal Violet
 Indian ink
 None

7. Phase Contrast Microscope contains *

Mark only one oval.

- Annular ring in condenser
 Opaque ring in condenser
 T shaped ring in condenser
 None of the above

8. Which of the following has the highest magnification *

Mark only one oval.

- Scanning Electron Microscope
- Transmission Electron Microscope
- Phase Contrast Microscope
- Light Microscope

9. Cocci are *

Mark only one oval.

- Rod Shaped
- Spherical Shaped
- Comma Shaped
- Cubic Shape

10. Which method is used to count viable bacteria *

Mark only one oval.

- Serial Dilution
- Hemocytometer
- Turbidometric
- All of above

11. In Gram staining, Gram-negative are stained *

Mark only one oval.

- Yellow
- Violet
- Black
- None of the above

12. Which is basic dye *

Mark only one oval.

- Methylene blue
- crystal violer
- malachite green
- All of the above

13. Which is a cuboidal arrangement of bacterias *

Mark only one oval.

- tetrad
- sarcinae
- diplococci
- None of the above

14. Which of the following is not a feature of prokaryotes *

Mark only one oval.

- Presence of Ribosomes
- Presence of Nucleoid
- Both
- presence of membrane bound organelle

15. You have isolated a motile Gram-positive bacteria with no visible nucleus, you can assume that the cell has *

Mark only one oval.

- Mitochondria
- Golgi Bodies
- Ribosomes
- None

16. Which of the following media is not used to culture aerobes *

Mark only one oval.

- selective
- reducing
- enrichment
- differential

17. Which temperature would kill mesophile *

Mark only one oval.

- 20
- 30
- 40
- 60

18. No increase in bacterial population occurs in *

Mark only one oval.

- Lag Phase
- Log Phase
- Both
- None

19. Which is required for protein and nucleic acid synthesis *

Mark only one oval.

- Nitrogen
- calcium
- magnisium
- none

20. Which is used as a solidifying agent for culture media *

Mark only one oval.

- Agar
- peptone
- casein digest
- All of above

21. Which is not correct about viruses *

Mark only one oval.

- obligate intracellular parasites
- have envelop
- may contain enzymes for replication
- divide by binary fission

22. Gram-Positive cells have *

Mark only one oval.

- Thick peptidoglycan wall
- Thin peptidoglycan wall
- No peptidoglycan
- None

23. A microscope has 10X eyepiece and 25 X objective, its magnification would be

Mark only one oval.

- 250X
- 1000x
- 35 x
- 2.5 x

24. Methods for isolation of pure bacterial culture *

Mark only one oval.

- Streak Plating
 Spread Plating
 Both
 None

25. Surgical cotton and gauge can be sterilized by *

Mark only one oval.

- Hot Air Oven
 Autoclave
 gamma radiation
 None

26. Correct temperature and pressure in case of autoclave is *

Mark only one oval.

- 121 degree Celsius and 20PSI
 121 degree Celsius and 25 PSI
 130 degree Celsius and 15 PSI
 121 degree Celsius and 15 PSI

27. 5% ascorbic acid injection can be sterilized by *

Mark only one oval.

- membrane filtration
 autoclave
 dry heat sterilisation
 none of the above

28. Mechanism of Dry Heat Sterilization is *

Mark only one oval.

- oxidation
- protein denaturation
- nucleic acid intercalation
- alkylation

29. Laminar Air Flow can be sterilized by *

Mark only one oval.

- UV Light
- HEPA filter
- wiping the surface with Ethyl Alcohol
- all the above

30. Sterilization is *

Mark only one oval.

- absolute or complete killing of microorganisms including their spores
- bringing the level of microorganisms to a safer level
- absolute of complete killing of microorganisms only vegetative forms
- none of the above

31. Disinfection is *

Mark only one oval.

- absolute or complete killing of microorganisms including their spores
- bringing the level of microorganisms to a safer level
- absolute of complete killing of microorganisms only vegetative forms
- none of the above

32. Dry air must be removed from autoclave before sterilization because *

Mark only one oval.

- it increases the temperature of steam
- it will act as a barrier to penetrate the steam
- it must not be removed
- none of the above

33. Which one is not the method of moist heat sterilization *

Mark only one oval.

- using autoclave
- using hot air oven
- pasteurization
- tyndallisation

34. Find the correct temperature and time of DHS *

Mark only one oval.

- 165 degree Celsius and 2 hours
- 180 degree Celsius and 2 hours
- 150 degree Celsius and 2 hours
- time and temperature not specified

35. One of the following statement is correct for UV and gamma rays used in sterilization *

Mark only one oval.

- UV has less penetrating power than gamma rays
- UV has more penetrating power than gamma rays
- There is no difference in penetration power
- None of the above

36. One of the following is the source of gamma radiation *

Mark only one oval.

- Zirconium
- Phosphorus
- Cobalt
- None of the above

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