

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Microbial and Industrial Applications

Course Code - MBT202

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Answer all the questions. Each question carry one mark.

9. 1. The melting temperature (T_m) of a primer is the temperature in which:

Mark only one oval.

- 25% of the primers are hybridized with their complementary sequence
- 50% of the primers are hybridized with their complementary sequence
- 75% of the primers are hybridized with their complementary sequence
- 90% of the primers are hybridized with their complementary sequence

10. 2. Which one belongs to Monera?

Mark only one oval.

- Amoeba
- Escherichia
- Gelidium
- Spirogyra

11. 3. Hyphal wall consists of microfibrils composed of:

Mark only one oval.

- hemicellulose or chitin
- IgM
- IgA
- IgE

12. 4. What are the dimensions of the filaments that the thallus of a fungus consists of?

Mark only one oval.

- 1 micrometre
- 4 to 6micrometre
- 1 metre
- 1 centimetre

13. 5. The crosswalls constrict which of the following parts and then grow inwards to form septum?

Mark only one oval.

- hyphae
- lumen
- protoplasm
- plasmalemma

14. 6. Which of the following instrument is used for recovery of yeast cells?

Mark only one oval.

- fermenter
- centrifuge
- filter press
- mash storage

15. 7. Baker's yeast produce gas which helps in rising of dough it is:

Mark only one oval.

- Oxygen
- Hydrogen
- Carbon dioxide
- Nitrogen

16. 8. Viruses are not regarded as living things because they cannot:

Mark only one oval.

- survive
- reproduce
- Attack host cell
- invade

17. 9. Germs spread in form of:

Mark only one oval.

- clusters
- droplets
- gases
- air

18. 10. Ability to eat away germ is specialty of

Mark only one oval.

- Red blood cell
- White blood cell
- Liver
- Plasma

19. 11. Some organisms can use reduced inorganic compounds as electron donors and are termed as

Mark only one oval.

- Lithotrophs
- Phototrophs
- Chemotrophs
- Photoorganotrophs

20. 12. The total biomass of an organism will be determined by the nutrient present in the lowest concentration relative to the organism's requirements is a statement of:

Mark only one oval.

- Liebig's law of the minimum
- Shelford's law of tolerance
- quorum sensing
- Heisenberg's principle of uncertainty

21. 13. An organism that expends energy to grow in a habitat with a low water activity in order to maintain internal solute concentrations to retain water is

Mark only one oval.

- osmotolerant
- acidophile
- aerotolerant anaerobe
- alkalophile

22. 14. A chemostat is also known as:

Mark only one oval.

- Bactogen
- Bacteriogen
- Bacterial filter
- Bacteriogen vessel

23. 15. Which is composed of population of cell that at the same stage of their cell cycle?

Mark only one oval.

- Chemostat
- Turbidostat
- Continuous culture
- Synchronous culture

24. 16. Microbial population maintained in which phase for long time use continuous culture system

Mark only one oval.

- Lag
- Log
- Exponential
- Death

25. 17. The advantage of continuous culture is:

Mark only one oval.

- Little risk of infection or strain mutation
- Can be used for different reactions every day
- Eliminating the inherent down time for cleaning and sterilization
- All of these

26. 18. In turbidostat

Mark only one oval.

- Cell growth is controlled by adjusting the concentration of one substrate
- Any required substrate like carbohydrate can be used as a limiting factor
- Cell growth is kept constant by using turbidity to monitor the biomass concentration
- Cell growth is controlled by adjusting the concentration of one substrate and cell growth is kept constant by using turbidity to monitor the biomass concentration

27. 19. The disadvantage of continuous culture is:

Mark only one oval.

- Spontaneous mutation of microorganisms to non-producing strain
- Can rarely be used for other productions without substantial retrofitting
- Both spontaneous mutation of microorganisms to non-producing strain and can rarely be used for other productions without substantial retrofitting
- None of these

28. 20. In the continuous culture, when the dilution rate is higher, then

Mark only one oval.

- Cells grow faster
- Increase in the residual substrate concentration
- Reduction in the steady state biomass concentration
- All of these

29. 21. In plug flow bioreactor

Mark only one oval.

- Back mixing of the culture solution which flows through a tubular reactor
- The culture solution flows through a tubular reactor without back mixing
- The composition of the nutrient solution, the number of cells, mass transfer and productivity does not vary at different locations within the system
- All of these

30. 22. Mixed cultures can be maintained using chemostat cultures in:

Mark only one oval.

- Fed-batch culture
- Batch culture
- Continuous culture
- All of these

31. 23. Antimicrobial constituents for the microbial growth in foods are:

Mark only one oval.

- intrinsic factor
- extrinsic factor
- both intrinsic factor and extrinsic factor
- None of these

32. 24. Which of the following are not the features of component II of nitrogenase enzyme complex?

Mark only one oval.

- component II is nitrogenasereductase
- component II is known as the MoFe protein
- contains sulfur
- not active without component I

33. 25. Fixation of ammonium would be least likely in which of the following materials?

Mark only one oval.

- vermiculite
- fine-grained illite
- sandy topsoil
- silty subsoil

34. 26. Plants growing in most soils can obtain their sulfur as sulfate ions that have undergone:

Mark only one oval.

- deposition from the atmosphere
- mineralization from soil organic matter
- oxidation from sulfide minerals
- all of these are correct

35. 27. In alkaline soils (pH > 7), most inorganic P is found in compounds containing:

Mark only one oval.

- iron
- aluminium
- calcium
- All of these

36. 28. Lactose:

Mark only one oval.

- Is always the cause of milk intolerance
- Cannot be digested in the human gut
- Intolerance is present in up to 20% of the population
- Is excluded on a low FODMAP diet

37. 29. Ulcerative colitis:

Mark only one oval.

- carries a risk of colonic cancer
- can be treated with a LOFFLEX diet
- can be caused by small intestinal bacterial overgrowth
- can be caused by milk intolerance

38. 30. For which viral disease, vaccine has been recently developed through the use of tissue culture?

Mark only one oval.

- Rotavirus
- Mumps
- Rabies
- Smallpox

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