

# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Industrial Fermentations

Course Code - BBTS401B

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Answer all the questions. Each question carry one mark.

9. 1. Fermentation which is carried by yeast is called

*Mark only one oval.*

- pyruvic fermentation
- acrylic fermentation
- lactic acid fermentation
- alcoholic fermentation

10. 2. Considering fermentation at industrial level, microorganism Bacillus is used to form

*Mark only one oval.*

- ethanol
- formic acid
- acrylic acid
- glycerol

11. 3. Fermentation which is carried by bacteria is called

*Mark only one oval.*

- lactic acid fermentation
- alcoholic fermentation
- pyruvic fermentation
- acrylic fermentation

12. 4. Applications of fermentation includes

*Mark only one oval.*

- cereal products
- dairy products
- beverage products
- all of above

13. 5. Function of Streptococcus during milk fermentation is to

*Mark only one oval.*

- produce aerobic environment
- produce anaerobic environment
- form lactic acid
- all of these

14. 6. In anaerobic (without O<sub>2</sub>) environment, sugar (C<sub>n</sub>H<sub>2m</sub>O<sub>m</sub>) in dough is converted into

*Mark only one oval.*

- glucose
- water
- alcohol
- carbon monoxide

15. 7. Beer may be produced by

*Mark only one oval.*

- germinating barley
- fermenting grape
- fermentation of rice
- all of these

16. 8. Genetic engineering developed in mid

*Mark only one oval.*

1960

1950

1970

1980

17. 9. The procedure in which oxidation-reduction of glucose ( $C_6H_{12}O_6$ ) is incomplete is called

*Mark only one oval.*

fertilization

reduction

oxidation

fermentation

18. 10. The scientist who proposed that microbial activity is cause of all fermentations is

*Mark only one oval.*

Ibn al Haithem

Gregor Mendel

Ian Wilmot

Louis Pasteur

19. 11. -Gluconic acid is produced by which of the following molds?

*Mark only one oval.*

- Aspergillus niger
- Rhizopus nigricans
- Aspergillus terreus
- Rhizopus oryzae

20. 12. By using single-cell protein, amount of protein produced by 50 kg of yeast is

*Mark only one oval.*

- 180 tons
- 100 tons
- 300 tons
- 250 tons

21. 13. insertion of gene into vector

*Mark only one oval.*

- batch operation systems
- continuous operation systems
- discontinuous operation system
- unique operation system



22. 14. Prion is not

*Mark only one oval.*

- living cell
- heat resistant
- found in man
- single cell protein

23. 15. Penicillin production is optimum in:

*Mark only one oval.*

- batch operation systems
- continuous operation systems
- discontinuous operation system
- unique operation system

24. 16. Mycoproteins has a texture of

*Mark only one oval.*

- cheese
- Proteins
- starch
- fat

25. 17. The name of first genetically modified organism was

*Mark only one oval.*

- glow virus
- agrobacteria
- glomice
- glofish

26. 18. Fermenters are designed for

*Mark only one oval.*

- aerobic processes
- anaerobic processes
- both aerobic and anaerobic respiration
- antirobic processes

27. 19. When energy depleted elements associated with a proton are accepted by an organic molecule, the process is called

*Mark only one oval.*

- Fermentation
- Respiration
- Anabolism
- Catabolism

28. 20. Pasteur effect discovered in 1857, is

*Mark only one oval.*

- Inhibiting effect of oxygen on the fermentation process
- Aerating yeasted broth causes yeast cell growth to decrease, while conversely, fermentation rate increases
- a and b
- All of these

29. 21. Which of the following is not a product of fermentation?

*Mark only one oval.*

- Lactate
- Oxygen
- Carbon dioxide
- Ethanol

30. 22. What production occurs in the fermentation of grains?

*Mark only one oval.*

- Must
- Brine
- Lactic acid
- Carbon dioxide

31. 23. Which is the detrimental effect of microorganisms in the food?

*Mark only one oval.*

- Generation of flavor
- Process of fermentation
- Spoilage of food
- All of the above

32. 24. Which is not fruit or vegetable based fermented product?

*Mark only one oval.*

- Wine
- Beer
- Vinegar
- Sauerkraut

33. 25. Chemical reactions require feed mixtures from non-renewable resources like coal, petroleum. What is used in place of non-renewable sources?

*Mark only one oval.*

- Sunlight
- Biomass
- Biodiesel
- Microorganisms

34. 26. Which of the following is a condition of operation for biochemical plant?

*Mark only one oval.*

- Metallic catalyst
- Chemical catalyst
- Elevated temperature
- Non-pathologic state of the organism

35. 27. Which of the following separation techniques is NOT used in the process of manufacturing of citric acid ?

*Mark only one oval.*

- Ultrafiltration
- Ion-exchange
- Crystallization
- Distillation

36. 28. Which of the following machines do not require a chemical separation technique?

*Mark only one oval.*

- The washing machine
- Refrigerator
- Water cooler
- Coffee machine

37. 29. Which of the following is NOT an importance of separation process?

*Mark only one oval.*

- Reduces the operating cost
- Reduces the risk of explosion
- Reduces the probability of side reactions
- Increases the speed of the reaction

38. 30. Which of the following is NOT used to represent a chemical process?

*Mark only one oval.*

- Block flow diagram
- Process-flow diagram
- Flow chart
- Line diagram

39. 31. Probability of the event that might occur X Severity of the event if it occurs

*Mark only one oval.*

- Accident
- Hazard
- Risk
- None of the above

40. 32. Industrial safety management is that branch of management which is concerned with \_\_\_\_\_ hazards from the industries.

*Mark only one oval.*

- Reducing
- Controlling
- Eliminating
- All of the above

41. 33. Water is used to extinguish

*Mark only one oval.*

- Class-A fires
- Class-B fires
- Class-C fires
- All of the above

42. 34. The following class of fire occur in electrical equipment

*Mark only one oval.*

- Class-A fires
- Class-B fires
- Class-C fires
- All of the above

43. 35. Which is best suited to extinguishing oil or flammable liquid fire?

*Mark only one oval.*

- Soda acid
- Vaporizing liquid
- Foam
- Dry chemical

44. 36. The boiling point of diesel is

*Mark only one oval.*

- 270°C to 340°C
- 350°C to 500°C
- 500°C to 600°C
- More than 500°C

45. 37. The percentage of nitrogen (N) in urea ( $\text{CH}_4\text{N}_2\text{O}$ ) is:

*Mark only one oval.*

- 0.5
- 0.466
- 0.4
- 0.2



46. 38. The metallic compounds that occur naturally are called

*Mark only one oval.*

- Mineral oxides
- Minerals
- Ores
- None of these

47. 39. Compounds which are added in soil to provide essential elements to plants are called

*Mark only one oval.*

- carbonates
- salts
- fertilizers
- metals

48. 40. The process of separating metal from ore is called

*Mark only one oval.*

- magnetic separation
- floatation process
- metallurgy
- cyclone separation

49. 41. In the passive diffusion, solute molecules cross the membrane as a result of

*Mark only one oval.*

- concentration difference
- pressure difference
- ionic difference
- all of these

50. 42. Radioisotopes are frequently used in the study of cells. Assume a culture of E. coli is grown in a culture medium containing radioactive phosphorous. At the end of 48 hours, it is expected to find the radioactive label located in

*Mark only one oval.*

- enzymes
- RNAnose
- phospholipids
- All of these

51. 43. When acetate is the sole source of carbon for some microorganisms, the cycle which is used, is called

*Mark only one oval.*

- pentose phosphate pathway
- glycolytic pathway
- glyoxylate pathway
- oxaloacetate pathway

52. 44. Hexose monophosphate pathway is also known as

*Mark only one oval.*

- phosphogluconate pathway
- oxaloacetate pathway
- fumarate pathway
- malate pathway

53. 45. Which of the following type of metabolite is used for generating glucose under severe starvation conditions?

*Mark only one oval.*

- Amino acids
- Fats
- Glycogen
- Starch

54. 46. Different enzymes that catalyze same reaction are called as

*Mark only one oval.*

- Isozymes
- Coenzymes
- Holoenzymes
- Cofactors

55. 47. Pharmacokinetics deals with study of

*Mark only one oval.*

- Body metabolism
- Drug designing
- Drug metabolism
- Drug synthesis

56. 48. When blood sugar falls glycolysis is halted in liver to allow reverse process named as

*Mark only one oval.*

- aerobic respiration
- gluconeogenesis
- anaerobic respiration
- homeostasis

57. 49. The process in which activation or inhibition of an enzyme by a small regulatory molecule is called:

*Mark only one oval.*

- enzyme control
- allosteric control
- specificity control
- enzyme action

58. 50. The enzyme that is present in pancreas and liver of human is named as

*Mark only one oval.*

- Glucokinase
- Pepsin
- Polymerase
- Lipase

59. 51. The mathematical system for explaining signaling, metabolic and genetic pathways is called

*Mark only one oval.*

- Metabolic control analysis
- genetic pathways
- Control system
- Check and balance

60. 52. The best way to determine the location of protein in the purification scheme is to measure the

*Mark only one oval.*

- rate of ATP synthesis
- UV absorption
- changes in the refractive index
- mass spectroscopy of the protein

61. 53. The conventional filtration involves the separation of large particles generally

*Mark only one oval.*

- dp > 5 $\mu$ m
- dp > 10 $\mu$ m
- dp > 15 $\mu$ m
- dp > 20 $\mu$ m

62. 54. The disk centrifuge is the type of centrifuge used most often for bio separations due to its

*Mark only one oval.*

- continuous operation
- lesser cost
- higher speed
- ease in operation

63. 55. The stage wise operation of adsorption is called

*Mark only one oval.*

- contact filtration
- conventional adsorption
- affinity adsorption
- ion exchange

64. 56. Conventional adsorption is

*Mark only one oval.*

- reversible process
- irreversible process
- either reversible or irreversible
- none of these

65. 57. The optimum wet solid content for the cell suspension for a bead mill is typically somewhere between

*Mark only one oval.*

- 5-15% by volume
- 15-30% by volume
- 30-60% by volume
- 60-90% by volume

66. 58. Concentration polarization can be reduced further by

*Mark only one oval.*

- pre-filtering the solution
- reducing the flow rate per unit membrane surface area
- back washing periodically
- All of these

67. 59. When the velocity of enzyme activity is plotted against substrate concentration, which of the following is obtained?

*Mark only one oval.*

- Hyperbolic curve
- Parabola
- Straight line with positive slope
- Straight line with negative slope

68. 60. The rate determining step of Michaelis-Menten kinetics is

*Mark only one oval.*

- The complex dissociation step to produce products
- The complex formation step
- The product formation step
- None of these

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