

# Online Examinations (Odd Sem/Part-I/Part-II Examinations 2021 - 2022)

Course Name - --Biotechnology and Human Welfare

Course Code - GEBT301

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Mark only one oval.

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- M.SC.(MATH)
- LLM
- MBA
- MCA

Answer all the questions. Each question carry one mark.

10. 1. How many structural forms exist of native protein?

*Mark only one oval.*

- 6
- 2
- 4
- 3

11. 2. What is the raw material normally used in bio-ethanol production?

*Mark only one oval.*

- Protein
- Lipids
- Plant hormone
- Sugar

12. 3. Which one of the followings is optimal byproduct obtain during glucose fermentation?

*Mark only one oval.*

- CO<sub>2</sub>
- EtOH
- DDGS
- All of these

13. 4. Amino acid synthesis takes place in

*Mark only one oval.*

- Mitochondria
- Nucleus
- Lysosome
- Ribosome

14. 5. Protein engineering can be done by

*Mark only one oval.*

- Fermentation
- Gluconeogenesis
- Amino acid exchange
- Gene cloning

15. 6. Amino acids are connected in primary protein structure through

*Mark only one oval.*

- Peptide bond
- H-bond
- Covalent bond
- Di-sulfide bond

16. 7. Exon refers

*Mark only one oval.*

- Non-coding DNA
- Promoter DNA sequence
- Satellite DNA
- Coding DNA

17. 8. The first produced commercial fungal enzyme is

*Mark only one oval.*

- Cellulase
- Pectinase
- Esterase
- Amylase

18. 9. Papain enzyme is obtained from

*Mark only one oval.*

- Pineapple
- Bacillus
- Wheat
- Papaya

19. 10. Yeast biomass is the good source of

*Mark only one oval.*

- Sugars
- Lipids
- Minerals & salts
- Protein & vitamins

20. 11. Protein synthesis takes place in

*Mark only one oval.*

- Nucleus
- Cytoplasm
- Ribosome
- Mitochondria

21. 12. 'Asn' code for \_\_\_\_ amino acid

*Mark only one oval.*

- Alanine
- Arginine
- Aspartic acid
- Asparagine

22. 13. PCR is used to

*Mark only one oval.*

- Clone a gene
- Amplify a gene
- Cut a gene
- Join two or more genes.

23. 14. Yeast contributes \_\_\_\_% of total commercial enzyme production.

*Mark only one oval.*

- 4
- 24
- 60
- 64

24. 15. Chlorophyll is

*Mark only one oval.*

- Plant based hormone
- Plant based metabolites
- Plant pigment
- plant toxin

25. 16. An example of Nodule forming plant is

*Mark only one oval.*

- Banana
- Coconut
- Bamboo
- Pisum

26. 17. Pseudomonas pisi is the causal organism of

*Mark only one oval.*

- Blight of potato
- Blight of peas
- Blight of corn
- Blight of papaya



27. 18. Agrobacterium tumefaciens is mainly \_\_\_\_ bacteria.

*Mark only one oval.*

- Soil borne
- Water borne
- Air borne
- All of these

28. 19. The size of Ti plasmid is about

*Mark only one oval.*

- 200 bp
- 200 kb
- 2000 bp
- 100 kb

29. 20. What is the raw material normally used in bioethanol production?\_

*Mark only one oval.*

- Protein
- Lipid
- Mineral
- Sugar

30. 21. Ti plasmid contains maximum \_\_\_\_ number of 'vir' genes?

*Mark only one oval.*

- 10
- 12
- 20
- 22

31. 22. Agrobacterium is \_\_\_\_\_

*Mark only one oval.*

- Gram + bacteria
- Gram – bacteria
- Both are possible
- None of these

32. 23. 'Loss of foliage' is a symptom of

*Mark only one oval.*

- Wilt
- Blight
- Gall
- Canker

33. 24. Azotobacter is

*Mark only one oval.*

- Free living aerobic bacteria
- Free living anaerobic bacteria
- Free living fungi
- Free living algae

34. 25. How much does a bushel of shelled corn weigh?

*Mark only one oval.*

- 20 pounds
- 30 pounds
- 40 pounds
- 50 pounds

35. 26. What does PDCA stand for?

*Mark only one oval.*

- Pure dairy culling association
- Pure dairy cattle area
- Purebred dairy cattle association
- Plant dairy cattle area

36. 27. At what age can a heifer be bred?

*Mark only one oval.*

- 13-15 months
- 6-7 months
- 24-25 months
- 3 yrs old

37. 28. How do dairy producers improve the inherited ability of cattle to produce greater amounts of milk?

*Mark only one oval.*

- through culling
- through tasting
- through nutrition
- through selection

38. 29. What fat-soluble vitamins do fats provide?

*Mark only one oval.*

- Vitamins A, D, E, and K
- Vitamins A, B, E, and K
- Vitamins A, C, E, and K
- Vitamins A, C, D, E, and K

39. 30. Where are undegradable proteins absorbed?

*Mark only one oval.*

- Liver
- Small intestine
- Rumen
- Large intestine

40. 31. Microorganisms used for degradation of C<sub>10</sub>-C<sub>30</sub> alkanes

*Mark only one oval.*

- Pseudomonas
- Burkholderia
- Rhodococcus
- Acinetobacter sp.

41. 32. Enzyme required for C<sub>10</sub>-C<sub>16</sub> alkanes are?

*Mark only one oval.*

- Monooxygenases
- Hydroxylases
- Eukaryotic P450
- None of these

42. 33. Example of agro-industrial waste

*Mark only one oval.*

- molasses
- peels
- both of these
- None of these

43. 34. Method of disposal for Fruit and vegetable processing

*Mark only one oval.*

- animal feed
- Land application
- both of these
- None of these

44. 35. Waste from leather tanning

*Mark only one oval.*

- Fleshings
- hair and raw
- Tanned trimmings
- All of these

45. 36. Crop harvest as well as Coconut production produces waste

*Mark only one oval.*

- Blood and bones
- manures
- Stover
- All of these

46. 37. Agricultural waste management includes

*Mark only one oval.*

- production
- collection
- transfer
- all of these

47. 38. Abiotic stress are

*Mark only one oval.*

- temperature
- water
- Radiation
- All of these

48. 39. Symptoms of cold stress in plants

*Mark only one oval.*

- Desiccation or burning of foliage
- Water soaked areas that prolongs to necrosis
- Weakened root system or split bark
- all of these

49. 40. Effects of Heat stress on Plants

*Mark only one oval.*

- Alteration in photosynthesis
- Total biomass is increased
- Pollen development is not affected
- swelling of leaf margins

50. 41. Mesophiles grows in

*Mark only one oval.*

- 15 to 20°C
- 35 to 45°C
- 45 to 100°C
- all of these

51. 42.Example of biodegradable polymer

*Mark only one oval.*

- collagen
- poly glycolic acid
- Both of these
- None of these

52. 43. Mechanism of biodegradable polymers are

*Mark only one oval.*

- Hydrolysis
- Enzymatic degradation
- Combination
- All of these

53. 44. Synthetic biodegradable polymers are

*Mark only one oval.*

- Polyanhydrides
- Polyphosphazenes
- polyaminoacids
- All of these

54. 45. The most reproducible type marker is

*Mark only one oval.*

- RAPD.
- RFLP.
- SSR.
- None

55. 46. The set of DNAs generated by using random primers in a PCR reaction is called

*Mark only one oval.*

- SSR.
- RFLP
- AFLP
- None of these

56. 47. Mastermix of PCR contain

*Mark only one oval.*

- DNA, Forward and reverse Primer, Mg+, Buffer, Taq polymerase.
- DNA, Forward Primer, Mg+, Buffer, Taq polymerase.
- DNA, Mg+, Buffer, Taq polymerase.
- DNA, Primer, Mg+, Buffer, Taq polymerase

57. 48. All the statements are true regarding RFLP and RAPD except

*Mark only one oval.*

- RAPD is a not quick method compared to RFLP.
- RFLP is more reliable than RAPD.
- Species specific primers are not required for RAPD .
- Radioactive probes are not required in RAPD

58. 49. Name the technique that follow repetitive sequences.

*Mark only one oval.*

- AFLP
- RAPD.
- AFLP.
- SSR.



59. 50. The number of nucleotide repeats in minisatellite are

*Mark only one oval.*

- 6-10
- 1-5
- 15-30
- 30-80

60. 51. Which one of the marker requires blotting?

*Mark only one oval.*

- RAPD.
- SSR
- RFLP
- None of these

61. 52. Which one of the following marker is used for selection of transgenic plants:

*Mark only one oval.*

- Drug resistance gene.
- RAPD marker.
- Antibiotic resistance gene.
- vitamin resistance gene.

62. 53. Radioactive probe is not required in

*Mark only one oval.*

- RAPD
- AFLP
- RFLP
- All of these

63. 54. Which of the following dye is used for observing DNA in agarose gel?

*Mark only one oval.*

- Ethyidium bromide.
- acetocarmine.
- Methylene blue
- None of these.

64. 55. Mode of action of forensic study

*Mark only one oval.*

- Examination of physical evidence
- Administration of tests
- Interpretation of data
- All of these

65. 56. Forensic scientists are classified into

*Mark only one oval.*

- Forensic Pathologists
- Forensic laboratory technician
- Assistant Scientists
- All of these

66. 57. DNA fingerprinting was invented by

*Mark only one oval.*

- Alex Chromer
- Astrix Jeffreys
- Alex Jeffreys
- Watson Plize

67. 58. Enzymes required in DNA fingerprinting

*Mark only one oval.*

- Restriction endonuclease
- Hydrolyases
- Lyases
- Ligase

68. 59. Autoradiography is done using

*Mark only one oval.*

- Isolation technique
- Reflection
- X-ray technique
- Dispersion

69. 60. The name for a monoclonal antibody is formatted as

*Mark only one oval.*

- PREFIX – SUFFIX - TARGET - SOURCE SPECIES –
- PREFIX – TARGET - SOURCE SPECIES – SUFFIX
- PREFIX – TARGET - SPECIES – SUFFIX -SOURCE
- SPECIES -PREFIX – TARGET - SOURCE – SUFFIX

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