

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

Course Name - --Biotechnology and Human Welfare

Course Code - GEBT301

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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.

- CO₂
- 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 C₁₀-C₃₀ alkanes

Mark only one oval.

- Pseudomonas
- Burkholderia
- Rhodococcus
- Acinetobacter sp.

41. 32. Enzyme required for C₁₀-C₁₆ 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
- peals
- 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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