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

Course Name - Genomics and Proteomics
Course Code - BBT602

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○ M.SC.(ANCS)

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○ B.A.(Eng)

Answer all the questions. Each question carry one mark.

9.   1. Genome refers

Mark only one oval.

○ Total gene pool of an organism

○ Total mRNA of an organism

○ Only DNA of a diploid cell

○ Only proteins

10.   2. C-value in genome represents_____

Mark only one oval.

( ) Genetic disorders

( ) Phenotypic variation

( ) Amount of DNA present in the genome

( ) Qualitative traits

11.   3. Genomics is the sub discipline of genetics devoted to the

Mark only one oval.

( ) Mapping

( ) Sequencing

( ) Functional analysis

( ) All of these

12.   4. Bioinformatics involves

Mark only one oval.

( ) Artificial intelligence

( ) Only knowledge of Biochemistry

( ) Zoological knowledge

( ) All of these

13.   5. A character or trait is the direct function of

Mark only one oval.

◯ Gene

◯ RNA

◯ Protein

◯ rRNA

14.   6. Most of the eukaryotic nuclear genome has

Mark only one oval.

◯ Repetitive DNA

◯ Unique DNA

◯ GC island

◯ Single copy

15.   7. What is the genome size of yeast?

Mark only one oval.

◯ 12 Mb

◯ 120 Mb

◯ 330 Mb

◯ 1000 Mb

16.   8. Human has a_____ genome.

Mark only one oval.

◯ About 100 kb

◯ About 500 kb

◯ About 1000 kb

◯ About 3000 kb

17.   9. Introns are

Mark only one oval.

◯ Non coding regions of genome

◯ Coding regions of genome

◯ Repetitive regions of genome

◯ All of these

18.   10. Exons are

Mark only one oval.

◯ Non coding regions of genome

◯ Coding regions of genome

◯ Repetitive regions of genome

◯ All of these

19.   11. Human genome contains about

Mark only one oval.

⬭ 10-20k genes

⬭ 30-40k genes

⬭ 50-80k genes

⬭ More than 100k genes

20.   12. The largest genome is belonging from which organism?

Mark only one oval.

⬭ E. coli

⬭ Homo sapiens

⬭ T4

⬭ Carsonella ruddii

21.   13. The smallest genome is belonging from which organism?

Mark only one oval.

⬭ E. coli

⬭ Homo sapiens

⬭ T5

⬭ Carsonella ruddii

22.   14. DNA sequence is the linear order of _____

Mark only one oval.

◯ Nucleotides

◯ Neucleosides

◯ Amino acids

◯ Glucose moieties

23.   15. NucleotidesNeucleosidesAmino acidsGlucose moieties

Mark only one oval.

◯ ddNTP

◯ dNTP

◯ Base modifiers

◯ Base analogues

24.   16. Chain-termination is a type of _____

Mark only one oval.

◯ Sequencing

◯ Vector generation

◯ Antibiotic production

◯ Gene manipulation

25.   17. What is the main enzyme used in Sanger method?

Mark only one oval.

○ Nuclease

○ Polymerase

○ Gyrase

○ None of these

26.   18. NucleasePolymeraseGyraseNone of these

Mark only one oval.

○ DNA polymerase

○ RNA polymerase

○ Gyrase

○ Nuclease

27.   19. DNA polymeraseRNA polymeraseGyraseNuclease

Mark only one oval.

○ Sanger sequencing

○ Maxam-Gilbert sequencing

○ MALDI-TOF

○ ESI-MS

28. 20. Sanger sequencingMaxam–Gilbert sequencingMALDI-TOFESI-MS

Mark only one oval.

◯ Luciferase and DNA Pol 1

◯ Sulfurylase and luciferase

◯ Sulfurylase only

◯ All of these

29. 21. SOLiD sequencing is based on the principle of ____

Mark only one oval.

◯ DNA polymerization

◯ DNA ligation

◯ DNA degradation

◯ DNA denaturation

30. 22. Which of the following techniques is used to immobilize/amplify a ssDNA primer binding region (known as an adapter) which has been conjugated to the target sequence (i.e. the sequence that is to be sequenced) on a bead.

Mark only one oval.

◯ Emulsion PCR

◯ Nested PCR

◯ Hot-start PCR

◯ All of these

31.   23. The first bacterial genome to be sequenced was that of _____ a mild human pathogen.

Mark only one oval.

⬭ Hemophilus influenzae

⬭ Lactobacillus

⬭ Vibrio cholarae

⬭ Clostridium botulinum

32.   24. Which of the given is wrongly matched?

Mark only one oval.

⬭ Escherichia coli – Bacteria

⬭ Methanococcus jannaschii – Archaea

⬭ Synechocystis sp. – Archaea

⬭ Aquifex aeolicus – Bacteria

33.   25. Which of the following is incorrect regarding gene ontology?

Mark only one oval.

⬭ It exists because there is a need to standardize protein functional descriptions

⬭ It uses a limited vocabulary to describe molecular functions

⬭ Biological processes are not described though

⬭ The cellular components are described using limited vocabulary

34.   26. Coregenes is a web-based program that determines a _____ set of genes based on comparison of _____ small genomes.

Mark only one oval.

⚪ vast, four

⚪ core, fifteen

⚪ core, four

⚪ vast, fifteen

35.   27.BLAST will allow

Mark only one oval.

⚪ Lower scoring hits

⚪ Higher scoring hits

⚪ Basic scoring hits

⚪ Only peptide hits

36.   28. Ensembl is a

Mark only one oval.

⚪ Genome browser

⚪ Protein browser

⚪ Both of these

⚪ None of these

37.   29. Ensembl has the accession to annote mainly

Mark only one oval.

⬭ Ptimate genome

⬭ Vertibrate genome

⬭ Human genome

⬭ Mammals genome

38.   30. Which of the following is used for DNA fragments' cluster generation on a microchip?

Mark only one oval.

⬭ Emulsion PCR

⬭ Bridge PCR

⬭ Both of these

⬭ None of these

39.   31. Pyrosequencing was developed for the first time by___

Mark only one oval.

⬭ Celera Genomics

⬭ 454 Life sciences

⬭ Roche

⬭ Sanger

40. 32. Which one of the following is not using any flourescent or camera scanning techniques?

Mark only one oval.

○ Ion torrent sequencing

○ Pyrosequencing

○ SoliD sequencing

○ None of these

41. 33. If you want to submit a new protein sequence, which one of the following is the best platform?

Mark only one oval.

○ NCBI

○ SWISSPROT

○ EMBL

○ DDBJ

42. 34. Every protein in its native state has a unique three dimensional structure which is referred to as its_____

Mark only one oval.

○ Configuration

○ Conformation

○ Spatial arrangement of domains

○ None of these

43.   35. How many orders are possible for a conventional protein folding?

Mark only one oval.

◯ 1

◯ 2

◯ 3

◯ 4

44.   36. In ion torrent semi conductor sequencing method, which one of the following ions are detected?

Mark only one oval.

◯ Mg2+

◯ H+

◯ Cl-

◯ Ca2+

45.   37. Long repeat sequences are difficult to detect with which of the following techniques?

Mark only one oval.

◯ Ion torrent sequencing

◯ Pyrosequencing

◯ SoliD sequencing

◯ None of these

46.   38. In Mass spectrometric analysis, which one of the following is used for sequencing data?

Mark only one oval.

⬭ Mass of the peptide

⬭ Charge of the peptide

⬭ m/z value of the peptide

⬭ z/m value of the peptide

47.   39. Peptide bond has _____ nature.

Mark only one oval.

⬭ Partial triple bond

⬭ Partial double bond

⬭ Single bond

⬭ Double bond

48.   40.Which of the following is an example of Homology and similarity tool?

Mark only one oval.

⬭ BLAST

⬭ RasMol

⬭ EMBOSS

⬭ PROSPECT

49.   41. In which year did the SWISSPROT protein sequence database begin?

Mark only one oval.

( ) 1985

( ) 1986

( ) 1987

( ) 1988

50.   42. Which of the following tools is used for the identification of motifs?

Mark only one oval.

( ) BLAST

( ) COPIA

( ) PROSPECT

( ) Pattern hunter

51.   43.The identification of drugs through the genomic study is called_____.

Mark only one oval.

( ) Genomics

( ) Pharmacogenomics

( ) Pharmacogenetics

( ) Cheminformatics

52. 44. Proteomics refers to the study of _____.

Mark only one oval.

- ○ Set of proteins in a specific region of the cell
- ○ Biomolecules
- ○ Set of proteins
- ○ The entire set of expressed proteins in the cell

53. 45. The process of finding the relative location of genes on a chromosome is called _____.

Mark only one oval.

- ○ Gene tracking
- ○ Genome walking
- ○ Genome mapping
- ○ Chromosome walking

54. 46. The term "invitro" is the Latin word which refers to_____.

Mark only one oval.

- ○ Within the lab
- ○ Within the glass
- ○ Outside the lab
- ○ Outside the glass

55. 47. _____involves isolating DNA from multiple species within an environmental niche.

Mark only one oval.

◯ Metagenomics

◯ Genomics

◯ Proteomics

◯ Metabolomics

56. 48. Genomics can be used in agriculture to:

Mark only one oval.

◯ Generate new hybrid strains

◯ Improve disease resistance

◯ Improve yield

◯ All of these

57. 49. Which of the following is an example of model organism?

Mark only one oval.

◯ Mangifera indica

◯ Arabidopsis thaliana

◯ Cocos nucifera

◯ Porteresia coarctata

58.   50. EcoGene is the database of:

Mark only one oval.

    ◯ E. coli

    ◯ S. cerevisiae

    ◯ Human genome

    ◯ Rat

59.   51. Which of the following factors is not responsible for the denaturation of proteins?

Mark only one oval.

    ◯ Heat

    ◯ Charge

    ◯ pH change

    ◯ Organic solvents

60.   52. Which of the following is responsible for specifying the 3D shape of a protein?

Mark only one oval.

    ◯ The peptide bond

    ◯ The amino acid sequence

    ◯ Interaction with other polypeptides

    ◯ Interaction with molecular chaperons

61. 53. Which of the following proteins was first sequenced by Frederick Sanger?

Mark only one oval.

◯ Myosin

◯ Insulin

◯ Myoglobin

◯ Haemoglobin

62. 54. What is a bond between amino acids called?

Mark only one oval.

◯ Ionic bond

◯ Acidic bond

◯ Peptide bond

◯ Hydrogen bond

63. 55. Which of the following food products are high in protein content?

Mark only one oval.

◯ Tofu and eggs

◯ Grains and legumes

◯ Milk and milk products

◯ All of these

64.   56. Which of the following statements is true about the complete proteins?

Mark only one oval.

⬭ High-protein foods that stabilize body weight

⬭ Food that has a balanced amount of fat and protein

⬭ Foods that provide all the amino acids that the body needs

⬭ All of these

65.   57.Which of the following is not the function of proteins?

Mark only one oval.

⬭ Helps in digesting food

⬭ Carries genetic information

⬭ Fights against the invading pathogens

⬭ Helps in transporting oxygen in the blood

66.   58. Which of the following statements is true about the (primary) 1° structure of proteins?

Mark only one oval.

⬭ The helical structure of the protein

⬭ Subunit structure of the protein

⬭ Three-dimensional structure of the protein

⬭ The sequence of amino acids joined by a peptide bond

67.   59. The process of protein synthesis takes place in which of the following cell organelles?

Mark only one oval.

⚪ Nucleus

⚪ Mitochondria

⚪ Vacuoles

⚪ Cytoplasm

68.   60. _____ the smallest amino acid, has a hydrogen atom as the R group.

Mark only one oval.

⚪ Valine

⚪ Proline

⚪ Glycine

⚪ Threonine

69.   61. Mass spectrometers are used to determine which of the following?

Mark only one oval.

⚪ Composition in sample

⚪ Concentration of elements in sample

⚪ Relative mass of atoms

⚪ Properties of sample

70.   62. Who invented mass spectrometers?

Mark only one oval.

⬭ J.J Thompson

⬭ Tesla

⬭ Darwin

⬭ Crompton

71.   63. The procedure for mass spectroscopy starts with which of the following processes?

Mark only one oval.

⬭ The sample is bombarded by electron beam

⬭ The ions are separated by passing them into electric and magnetic field

⬭ The sample is converted into gaseous state

⬭ The ions are detected

72.   64. Which of the following ions pass through the slit and reach the collecting plate?

Mark only one oval.

⬭ Negative ions of all masses

⬭ Positive ions of all masses

⬭ Negative ions of specific mass

⬭ Positive ions of specific mass

73.   65. In a time-of-flight mass spectrometer, the velocity v of an accelerated ion is related to its mass by which of the following?

Mark only one oval.

○ proportional to m (its mass)

○ nversely proportional to its mass

○ proportional to the square root of its mass

○ inversely proportional to the square root of its mass

74.   66. The matrix is used for_____

Mark only one oval.

○ high spatial resolution lipid imaging

○ Detection of high-weight molecules like proteins that are larger than 5000 daltons

○ detection of oligonucleotides and phosphorylated peptides

○ All of these

75.   67. Which of the following ionization technique uses a short laser pulse to achieve ionization?

Mark only one oval.

○ ESI

○ Chemical Ionization

○ FAB

○ MALDI

76.   68.Which of the following ionization method uses aromatic compounds and organic solvents to achieve ionization?

Mark only one oval.

( ) ESI

( ) Chemical Ionization

( ) FAB

( ) MALDI

77.   69. If a charge has a mass of 3 kg and it is traveling at a speed of 10 m/s in-flight tube, then what will be it's kinetic energy?

Mark only one oval.

( ) 300 J

( ) 90 J

( ) 100 J

( ) 150 J

78.   70. Which of the following is a Sanger's reagent?

Mark only one oval.

( ) 1-fluoro-2, 4-dinitrobenzene

( ) 1-fluoro-2, 3-dinitrobenzene

( ) 1-fluoro-2, 4-trinitrobenzene

( ) 1-fluoro-2, 3-trinitrobenzene

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