

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

Course Name - -Biology

Course Code -BSC(ECE)401

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Answer all the questions. Each question carry one mark.

9. 1.Which of the following cell organelles does not contain DNA?

Mark only one oval.

- chloroplast
- lysosomes
- nucleu
- mitochondria

10. 2. which of the following cell organelle is known as powerhouse of the cell?

Mark only one oval.

- mitochondria
- nucleus
- endoplasmic reticulum
- lysosomes

11. 3. Which of the following statements is true about chromosomes?

Mark only one oval.

- It is present within the nucleus
- It carries genes and helps in inheritance
- It is composed of DNA in the form of Chromatin and protein
- all of these

12. 4. Enzymes are

Mark only one oval.

- Proteins
- Carbohydrates
- Lipids
- None of these

13. 5.Name the simplest amino acid

Mark only one oval.

- Asparagine
- Alanine
- Tyrosine
- Glycine

14. 6.This is known as the energy currency of the cell

Mark only one oval.

- ATP
- ADP
- DNA
- RNA

15. 7.Chromosome structure can be observed best during ____

Mark only one oval.

- Metaphase
- Anaphase
- Prophase
- None of these

16. 8.Cell plate is laid during

Mark only one oval.

- Karyokinesis
- Cytokinesis
- Metaphase
- Telophase

17. 9.Which of these bacterial components is least likely to contain useful antigens?

Mark only one oval.

- flagella
- capsule
- ribosomes
- cell wall

18. 10.Synthesis of RNA and proteins take place in _____

Mark only one oval.

- G1 phase
- S phase
- G0 phase
- G2 phase

19. 11. Chromosomes are separated during

Mark only one oval.

Telophase

Prophase

Anaphase

Metaphase

20. 12. The process of transfer of hereditary character from one generation to another is known as.....

Mark only one oval.

Genetics

Variation

Mutation

Genes

21. 13. The alternate form of a gene is

Mark only one oval.

Alternate type

Recessive character

Dominant character

Allele

22. 14. Who is known as the father of genetics?

Mark only one oval.

- Mendel
- Watson
- Morgan
- Bateson

23. 15. Digestive enzymes are present in

Mark only one oval.

- Liposomes
- Lysosomes
- Vacuoles
- Nucleus

24. 16. Which term of genetics represents the potential ability of a plant cell to grow into a complete plant?

Mark only one oval.

- Variation
- Cloning
- Pluripotency
- Totipotency

25. 17. The division of cytoplasm is known as

Mark only one oval.

- Mitosis
- Synapsis
- Cytokinesis
- Karyokinesis

26. 18. The best stage at which the total number of chromosomes can be counted in any species is

Mark only one oval.

- Telophase
- Metaphase
- Prophase
- Anaphase

27. 19. A sudden change in the gene which is heritable from one generation to other is known as

Mark only one oval.

- Cloning
- Variation
- Totipotency
- Mutation

28. 20. This structure tends to vanish always during meiosis and mitosis

Mark only one oval.

- Plastids
- Plasma membrane
- Nucleolus and nuclear membrane
- All of these

29. 21. This cell organelle does not contain DNA?

Mark only one oval.

- chloroplast
- lysosomes
- nucleus
- mitochondria

30. 22. This is known as powerhouse of the cell

Mark only one oval.

- mitochondria
- nucleus
- endoplasmic reticulum
- lysosomes

31. 23. _____ is not a double membrane-bound organelle

Mark only one oval.

- Chloroplast
- Mitochondria
- Endoplasmic Reticulum
- all of these

32. 24. Double-helix structure of DNA is discovered by _____

Mark only one oval.

- Gobind Khurana
- Nirenberg
- Watson and Crick
- Darwin

33. 25. Which of these amino acids are not optically active?

Mark only one oval.

- Cysteine
- Lysine
- Arginine
- Glycine

34. 26. The monomeric unit of nucleic acid are called _____

Mark only one oval.

- Nucleotides
- Nucleosides
- Pyrimidines
- Purines

35. 27. Name the pyrimidine base which is found in RNA but not in DNA?

Mark only one oval.

- Thymine
- Uracil
- Adenine
- Guanine

36. 28. What is the energy currency of the living cell?

Mark only one oval.

- GTP
- NADH
- FADH
- ATP

37. 29. Name the cross by which law of independent assortment inferred.

Mark only one oval.

- Dihybrid cross
- Monohybrid cross
- Test cross
- Back Cross

38. 30. The spindle apparatus is formed during the _____ phase of mitosis.

Mark only one oval.

- Telophase
- Prophase
- Anaphase
- Metaphase

39. 31. The _____ stage implies exit of the cell from cell cycle

Mark only one oval.

- G1
- S
- M
- G0

40. 32. This is the most common media of pollination in flowers without petals?

Mark only one oval.

- Water
- Insects
- Wind
- All of these

41. 33. In genetics, the Reverse transcriptase helps in which among the following transcriptions?

Mark only one oval.

- Single stranded DNA into double stranded DNA
- Single stranded RNA into double stranded DNA
- Single Stranded RNA into double stranded RNA
- Double Stranded DNA into single stranded RNA

42. 34. Which among the following sugars is maximum in Honey?

Mark only one oval.

- Fructose
- Maltose
- Sucrose
- Glucose

43. 35. All membranes contain some biochemicals which are responsible for cell recognition and adhesion. They are _____ ?

Mark only one oval.

- Proteins
- Glycoproteins and glycolipids
- Lipids
- None of these

44. 36. DNA-replication is by the mechanism of

Mark only one oval.

- conservative
- semi-conservative
- dispersive
- none of these

45. 37. Building blocks of Nucleic acids are

Mark only one oval.

- proteins
- nucleosides
- amino acids
- Nucleotides

46. 38.The force that initiates evolution is ____

Mark only one oval.

- Variation
- Extinction
- Adaptation
- Mutation

47. 39. On the Origin of Species was written by ____

Mark only one oval.

- Charles Darwin
- Mikhail Fedonkin
- Watson and Crick
- L. Kuprianova

48. 40.The present giraffe has a long neck as compared to its ancestors. Lamerck believed it could be due to

Mark only one oval.

- Natural selection
- Isolation
- Inheritance of acquired characters
- Speciation

49. 41. The use and disuse principal of evolution or theory of inheritance acquired characters was proposed by

Mark only one oval.

- Hugo de Vries
 Lamarck
 Weismann
 Darwin

50. 42. The foundation head of evolution is

Mark only one oval.

- Mutation
 Acquired characters
 Natural selection
 Sexual reproduction

51. 43. Flowers with both androecium and gynoecium are called

Mark only one oval.

- Bisexual flowers
 Anther
 Stamens
 Unisexual flowers

52. 44.The transfer of pollen from the anther to stigma is called

Mark only one oval.

- Diffusion
- Pollination
- Fertilization
- Adaptation

53. 45.Carbohydrates are polyhydroxy compounds of _____

Mark only one oval.

- Oligosaccharides
- Glucose
- Aldehydes and ketones
- Glyceradehyde

54. 46.Animals store glucose in the form of which macromolecule?

Mark only one oval.

- Cellulose
- Glycogen
- Glycerol
- Amylose

55. 47. Protein synthesis in bacteria takes place on which of the following organelles?

Mark only one oval.

- Endoplasmic Reticulum
- Golgi body
- Ribosomes
- Mitochondria

56. 48. Which of the following are non-sense codons?

Mark only one oval.

- UAA
- UAG
- UGG
- UCU

57. 49. After fertilization ovule develops into:

Mark only one oval.

- Integument
- Embryo
- Endosperm
- Seed

58. 50.The organelle serving as a primary packaging area for molecules that will be distributed throughout the cell is

Mark only one oval.

- Vacuoles
- Nucleolus
- Mitochondria
- Golgi complex

59. 51.Who is considered as the father of taxonomy?

Mark only one oval.

- Aristotle
- Linnaeus
- Earnst Haeckel
- Whittaker

60. 52. Anticodon is present in

Mark only one oval.

- DNA
- tRNA
- rRNA
- mRNA

61. 53.RNA contains repeating units of

Mark only one oval.

- deoxyribonucleotides
- ribonucleotides
- deoxyribonucleosides
- ribonucleosides

62. 54. A phosphodiester bond is present in_____.

Mark only one oval.

- Nucleic acids in a nucleotide
- Monosaccharides in a polysaccharide
- Amino acids in a polypeptide
- Fatty acids in a diglyceride

63. 55.Acrosome is filled with _____

Mark only one oval.

- Lipids
- Hormones
- Digestive enzymes
- None of these

64. 56. Which of the following properties of a protein is least likely to be affected by changes in pH?

Mark only one oval.

- Net charge
- Primary structure
- Secondary structure
- Tertiary structure

65. 57. Which of these is not a lipid?

Mark only one oval.

- Fats
- Oils
- Proteins
- Waxes

66. 58. In fats, the number of OH groups can be expressed as

Mark only one oval.

- Reichert-Meissil number
- Polenske number
- Iodine number
- Acetyl number

67. 59. How many molecules of ATP are formed from the catabolism of one glucose molecule?

Mark only one oval.

12

24

36

40

68. 60. Synthesis of RNA and proteins take place in _____

Mark only one oval.

G1 phase

S phase

G2 phase

None of these

69. 61. Animal cells lack

Mark only one oval.

mitochondria

cell wall

cell membrane

cytoplasm

70. 62. Rough endoplasmic reticulum contains _____ on its surface

Mark only one oval.

ribosomes

lysosomes

vacuoles

pores

71. 63. Restriction enzymes are isolated from

Mark only one oval.

Virus

Fungi

Protozoa

Bacteria

72. 64. For the production of a DNA copy, the enzyme which uses RNA is called

Mark only one oval.

DNA polymerase

RNA polymerase

DNA ligase

Reverse transcriptase

73. 65. Which of the following statements is true with respect to the DNA double helix?

Mark only one oval.

- Composed of two or more polynucleotide chains
- The base pairs have opposite polarity
- Covalent bond exists in base pairing
- T is transcribed as U

74. 66. Fructose is a form of carbohydrate synthesized in plants. It become table sugar by combining which of the following ?

Mark only one oval.

- Glucose
- Galactose
- Maltose
- None of these

75. 67. 'Pace-maker' is associated with which of the following body organs?

Mark only one oval.

- Liver
- Brain
- Heart
- Lungs

76. 68. Which of the following minerals is responsible for the occurrence of the anemia?

Mark only one oval.

- Iron
- Sodium
- Calcium
- Potassium

77. 69. The fluidity of the plasma membrane increases with

Mark only one oval.

- Increase in unsaturated fatty acids in the membrane
- Increase in saturated fatty acids in the membrane
- Increase in glycolipid content in the membrane
- Increase in phospholipid content in the membrane

78. 70. The outermost boundary of a cell is

Mark only one oval.

- Plasma membrane
- Nuclear membrane
- cytoplasm
- None of these

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