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NET JRF TEST 8

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Contact Number: 9350232207, 9891602060

TEST-8

(Bioenergetics, glycolysis, oxidative, phosphorylation, coupled reaction, group transfer, and biological energy transducers.)

1. The levels of cyclins is the different phases of cell cycle
 - (a) Rise and fall
 - (b) Rise
 - (c) Fall
 - (d) Remains stable
2. The test cross ratio of mono hybrid cross is
 - (a) 1: 1: 1: 1
 - (b) 3: 1
 - (c) 1: 2: 1
 - (d) 1: 1
 - (e) 1: 3
3. Identify from the following algae that which are the closest relatives of land plants
 - (a) Brown algae
 - (b) Green algae
 - (c) Red algae
 - (d) Blue green algae
 - (e) Purple algae
4. The random variation in gene frequency from one generation to another is known as
 - (a) Genetic drift
 - (b) Gene frequency
 - (c) Gene flow
 - (d) Founder effect
 - (e) Parallel evolution
5. One of the following is the cause of Colour blindness
 - (a) Co- Dominant allele in females
 - (b) Dominant allele in females
 - (c) Recessive allele in females
 - (d) Partially dominant allele in males
 - (e) Recessive allele in males
6. A solution having the same solute concentration as that of the cell sap is called
 - (a) Hypotonic solution
 - (b) Saturated solution

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- (c) Isotonic solution
- (d) Hypertonic solution
- (e) None of the above

7. In the mammalian tissues under anaerobic conditions, unlike the fermentation process the pyruvic acid is converted to

- (a) Ethyl alcohol
- (b) Lactic acid
- (c) Glucose
- (d) Fructose-1-Phospho
- (e) Glyceraldehydes-3-phosphate

8. Selective permeability identifies the process of

- (a) Diffusion
- (b) Osmosis
- (c) Plasmolysis
- (d) Imbibition
- (e) Hydrolysis

9. ATP was first discovered in muscle extracts by

- (a) Fiske and Y. Subbarow
- (b) Warburg
- (c) K.Lohmann
- (d) Meyerhoff
- (e) Both 1 and 2

10. Seeds swell when placed in water due to

- (a) Osmosis
- (b) Imbibition
- (c) Hydrolysis
- (d) Transpiration
- (e) Plasmolysis

11. Shifting of the t-RNA with dipeptide from amino acyl site to the peptidyl site is called

- (a) Transversion
- (b) Transcription
- (c) Translation
- (d) Translocation

12. If an individual is crossed with its recessive parent, it is called

- (a) Back cross

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- (b) Test cross
- (c) Reciprocal cross
- (d) Criss cross
- (e) Step forward cross

13. In a Down's syndrome the chromosome number is

- (a) 46
- (b) 44
- (c) 47
- (d) 45
- (e) 23

14. The human diploid chromosome number is

- (a) 42
- (b) 44
- (c) 45
- (d) 46
- (e) 48

15. Identify from the following, a good example of multiple allelism

- (a) Blood groups
- (b) Skin color in man
- (c) Haemophilia
- (d) Haemostatis
- (e) Color blindness

16. Wilting of the plant occurs when

- (a) Phloem is blocked
- (b) Xylem is blocked
- (c) Both xylem and phloem is blocked
- (d) None of the above
- (e) All the above

17. If two different alleles are received by an individual, it is called

- (a) Homozygous
- (b) Heterozygous
- (c) Allelomorphic
- (d) Homogametic
- (e) Hetrogametic

18. Selective permeability is identified with

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- (a) Diffusion
- (b) Osmosis
- (c) Imbibitions
- (d) Bulk flow
- (e) Transpiration

19. Which of these groups are characterized by cells that have more than one nucleus?

- (a) Diatoms
- (b) Dinoflagellates
- (c) Euglenoids
- (d) Ciliates
- (e) Sporozoans

20. The factors that participate in the elongation of polypeptide chain are

- (a) RF1 & RF2
- (b) Sigma factor & Rho factor
- (c) IF1, IF2 & IF3
- (d) EFT & EFG
- (e) None of the above

21. The spark-discharge apparatus to test chemical evolution of life was designed by

- (a) Jacob and Monad
- (b) Dixon and Jolly
- (c) Oparin and Haldane
- (d) Urey and Miller
- (e) Sidney fox and Miller

22. In birds the B- lymphocytes are differentiated in

- (a) Bone marrow
- (b) Bursa fabricius
- (c) Thymus
- (d) Sebaceous glands
- (e) Spleen

23. Which characteristic below is not unique to seed plants?

- (a) Ovules
- (b) Pollen
- (c) Micropyle
- (d) Spores
- (e) None of the above

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24. Which one of the following is not used for identifying different kinds of bacteria?

- (a) Mode of nutrition
- (b) Cell wall composition
- (c) NNumber of chromosomes
- (d) Cell shape
- (e) None of the above

25. Amino acyl t-RNA synthetase enzyme is concerned with

- (a) Polypeptide chain initiation
- (b) Polypeptide chain elongation
- (c) Polypeptide chain termination
- (d) Activation of amino acids
- (e) Activation of ribosomes

26. The detailed hypothesis of ATP functions as an energy rich phosphate was presented by

- (a) K. Lohmann
- (b) Lipmann
- (c) Belister
- (d) E.P. Kennedy
- (e) Lehninger

27. Mendelian factor that determines a biological characteristic is called

- (a) Muton
- (b) Recon
- (c) Operon
- (d) Gene
- (e) Genmmules

28. Glycolysis is also known as

- (a) Embden-Meyerhof pathway
- (b) Anaerobic pathway
- (c) Shunt pathway
- (d) Aerobic pathway
- (e) Both 1 and 2

29. Conversion of starch to organic acid is essential for

- (a) Stomatal closure
- (b) Stomatal opening
- (c) Stomatal stability
- (d) Stomatal formation

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(e) Stomatal growth

30. Miller observed the abiotic synthesis of _____ in his laboratory simulation of the early earth

- (a) Liposomes
- (b) Complex organic polymers
- (c) Amino acids
- (d) DNA
- (e) Glycoproteins

31. The cells which are directly involved in damaging infected cells are

- (a) B-lymphocytes
- (b) Basophils
- (c) Eosinophils
- (d) T- lymphocytes
- (e) Mast cells

32. The period following the G1 phase is

- (a) G2 phase
- (b) S phase
- (c) M phase
- (d) I phase
- (e) G₀ phase

33. The percentage of daughters becoming haemophilic when a haemophilic man marries a carrier woman shall be

- (a) 0%
- (b) 25%
- (c) 50%
- (d) 75%
- (e) 100%

34. Guttation is due to ---

- (a) Osmotic pressure
- (b) Turgor pressure
- (c) Root pressure
- (d) Permanent wilting percentage
- (e) All the above

35. Transpiration is regulated by the movements of

- (a) Epidermal cells of leaves

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- (b) Subsidiary cells of leaves
- (c) Guard cells of leaves
- (d) Mesophyll cells
- (e) None of the above

36. Lenticular transpiration accounts for

- (a) 5 to 10% loss of water
- (b) 2 to 3% loss of water
- (c) 10 to 15% loss of water
- (d) 10 to 20% loss of water
- (e) 1 to 2% loss of water

37. Hyper sensitivity is a state of ----

- (a) Increased antigen load in the body
- (b) Exaggerated immune response
- (c) Loss of immunity in the body
- (d) Cerebral sclerosis
- (e) Excessive production of B-lymphocytes

38. Proteins which regulate the series of events of cell cycle

- (a) Cytokinins and kinases
- (b) Kinases and cytochromes
- (c) Kinases and cyclins
- (d) Cyclins and cytochromes
- (e) Cytokinins and cyclins

39. In mammals B-lymphocytes are differentiated in

- (a) Bursa fabricius
- (b) Bone marrow
- (c) Thymus
- (d) Spleen
- (e) Liver

40. Stomatal opening occurs at

- (a) Neutral pH
- (b) Low pH
- (c) High pH
- (d) None

41. The first experiment on chemical evolution and organic evolution was carried out by

- (a) Watson and Crick

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Contact Number: 9350232207, 9891602060

- (b) Miller and Urey
- (c) Beadle and Tatum
- (d) Darwin and Wallace
- (e) Oparin and Haldane

42. The process of destroying all the microorganisms is called

- (a) Immunization
- (b) Pasteurization
- (c) Sanitation
- (d) Sterilization
- (e) Inoculation

43. The immunity developed in an individual as a result of antigenic stimulus in the life time

- (a) Innate immunity
- (b) Acquired immunity
- (c) Active immunity
- (d) Passive immunity
- (e) Non-specific immunity

44. In glycolysis the hexose diphosphate is split into _____ by aldolase.

- (a) Glyceraldehyde-3-P and Dihydroxy acetone-3-P
- (b) Glyceraldehyde and Dihydroxy acetone
- (c) Glyceraldehyde-3-P and Lactic acid
- (d) Pyruvic acid and 1,3-Diphosphoglyceric acid
- (e) None of the above

45. The portion of flower that receives the pollen is called

- (a) Filament
- (b) Anther
- (c) Ovary
- (d) Stigma
- (e) Egg

46. A DNA binding protein in prokaryotes that blocks gene transcription by binding to the operator

- (a) Operator
- (b) Repressor
- (c) Enhancer
- (d) Inhibitor
- (e) Structural protein

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47. The site of translation is

- (a) Ribosome
- (b) Nucleus
- (c) Chromosome
- (d) DNA
- (e) Plasma lemma

48. Which of the following reduces leaf temperature?

- (a) Absorption of water
- (b) Ascent of sap
- (c) Guttation
- (d) Transpiration
- (e) Vapour pressure gradient

49. The catabolic and anabolic reactions in intermediary metabolism can be represented by

- (a) Endergonic reactions
- (b) Exergonic reactions
- (c) Endergonic and Exergonic reactions
- (d) Exergonic and Endergonic reactions
- (e) None of the above

50. Photosynthetic bacteria that produce oxygen are believed to be originated around

- (a) 4200 million years
- (b) 4600 million years
- (c) 5000 million years
- (d) 1600 - 2000 million years
- (e) 3500 - 3800 million years

51. Application of the principles of heredity for the improvement of the man kind

- (a) Euthenics
- (b) Eugenics
- (c) Biotechnology
- (d) Euphenics
- (e) Molecular biology

52. The codon for lysine is

- (a) AAA, AAG
- (b) GGG, GGC
- (c) CCC, CCA

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Contact Number: 9350232207, 9891602060

- (d) UUU, UUC
- (e) UUA, GAC

53. The scientist who rediscovered Mendel's work independently are

- (a) De Vries
- (b) Correns
- (c) Tschermak
- (d) All the above
- (e) None of the above

54. The golden age of reptiles is

- (a) Archaeozoic era
- (b) Coenozoic era
- (c) Palaeozoic era
- (d) Mesozoic era
- (e) Precambrian era

55. Presence of K^+ , Cl^- and malate in guard cells leads to

- (a) Water potential decrease
- (b) Water potential increase
- (c) Osmotic potential decrease
- (d) Osmotic potential increase
- (e) Wall pressure increase

56. The cells that reenter cell cycle from G_0 phase are

- (a) Neurons
- (b) Meristematic cells of plants
- (c) Lymphocytes
- (d) RBC
- (e) Myocytes

57. Which of the following is usually under tension?

- (a) Xylem sap
- (b) Nuclear sap
- (c) Phloem sap
- (d) Cell sap

58. The Klinefelter's syndrome chromosome composition number who are capable of producing ovum is

- (a) 23
- (b) 24
- (c) 25

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Contact Number: 9350232207, 9891602060

- (d) 26
- (e) 27

59. A typical cell cycle includes

- (a) Destruction of a cell
- (b) Duplication of chromosomes
- (c) Division of cell
- (d) Both 1 and 2
- (e) Both 2 and 3

60. In the process of osmosis of a cell

- (a) Cell wall acts as membrane
- (b) Outermost layer of protoplasm acts as a membrane
- (c) Both cell wall and protoplasm acts as a membrane
- (d) Entire protoplasm acts as a membrane
- (e) Innermost layer of protoplasm acts as a membrane

61. The role of ATP in metabolism elucidated by the work of

- (a) Meyerhoff
- (b) Warburg
- (c) Kalckar
- (d) Engelhardt and Coris
- (e) All the above

62. Immunoglobins are

- (a) Carbohydrate
- (b) Protein
- (c) Lipid
- (d) Mucoprotein
- (e) Glycoprotein

63. Haemolysin is present in the

- (a) Saliva of mosquitoes
- (b) Blood of mosquitoes
- (c) Stomach lining cells of mosquitoes
- (d) Tracheolar fluid of mosquitoes
- (e) Gastric secretions of mosquitoes

64. Peptide bond formation is catalyzed by the enzyme

- (a) Nitrogenase
- (b) Amino acyl t-RNA dinitrase

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Contact Number: 9350232207, 9891602060

- (c) Peptidyl transferase
- (d) Nitrate reductase
- (e) Deaminase

65. Who first described that the ribosomes are involved in protein synthesis?

- (a) Holley
- (b) Oho
- (c) Khorana
- (d) Zamecnik et al
- (e) Fontana

66. The reaction involved in the conversion of glycogen to pyruvic acid or lactic acid is known as

- (a) Gluconeogenesis
- (b) Glycogenesis
- (c) Glycogenolysis
- (d) Glycolysis
- (e) Lipogenesis

67. First terrestrial vertebrates with keratin in their skin

- (a) Amphibian
- (b) Reptiles
- (c) Aves
- (d) Mammals
- (e) Marsupials

68. Activated amino acid is attached to one of the ends of t-RNA molecule at

- (a) 5' end
- (b) Anticodon
- (c) CCA end
- (d) Extra arm
- (e) DHU arm

69. End products of fermentation is

- (a) Sucrose
- (b) Pyruvic acid
- (c) Formaldehyde
- (d) Ethyl alcohol
- (e) Methane

70. The m-RNA released into the cytoplasm first binds with

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- (a) 70s ribosome
- (b) 80s ribosome
- (c) 30s of ribosome subunit
- (d) 50s of ribosome subunit
- (e) 40s of ribosome subunit

71. Administration of penicillin may cause

- (a) Systematic anaphylaxis
- (b) Localized anaphylaxis
- (c) Antibody dependant toxicity
- (d) Immune complex reaction
- (e) General anaphylaxis

72. Who among the following is an Austrian monk / Augustinian monk who has immensely worked on genetics

- (a) Morgan
- (b) Mc Clung
- (c) Montgomery
- (d) Mendel
- (e) De Vries

73. A fragment m-RNA that consists of 120 bases that which is arranged to form only 40 amino acids. This property of genetic code is known as

- (a) Non overlapping genetic code
- (b) Non ambiguous genetic code
- (c) Code is discontinuous
- (d) Universal code
- (e) None of the above

74. The process of prevention of loss of blood from the body by blood clotting is known as

- (a) Homeostasis
- (b) Anastamosis
- (c) Haemostasis
- (d) Metastasis
- (e) Epitasis

75. The number of triplets coding for the 20 amino acids is

- (a) 64
- (b) 61
- (c) 3

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- (d) 22
- (e) 20

76. Some scientists believe that the life has evolved on the earth for the first time from

- (a) A protocell
- (b) Archaeobacteria
- (c) Biogenesis
- (d) Primordial soup
- (e) Protista

77. The number of characters selected by Mendel in *Pisum sativum* for his experiment

- (a) 7
- (b) 8
- (c) 12 pairs
- (d) 3 pairs
- (e) 7 pairs

78. Transpiration is minimized by the deposition of the

- (a) Cellulose
- (b) Cutin
- (c) Chitin
- (d) Pectin
- (e) Mucilage

79. The degree of decrease of chemical potential of water depends on

- (a) Molecular weight of solute
- (b) Physical state of solvent
- (c) Nature of the solvent
- (d) Concentration of the solute
- (e) Concentration of the solvent

80. A cell increases in its volume when placed in solution called

- (a) Isotonic
- (b) Hypotonic
- (c) Hypertonic
- (d) All the above
- (e) Both 2 and 4

81. Cohesion theory is based on the?

- (a) Root pressure
- (b) Turgor pressure

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Contact Number: 9350232207, 9891602060

- (c) Transpiration pull
- (d) Osmotic pressure
- (e) All the above

82. The gametophyte form of a moss generation

- (a) Produces spores
- (b) Is dependent on the sporophyte
- (c) Has tracheids but no vessel elements
- (d) Is haploid
- (e) Has a stalk like structure

83. One of the following organs is not a primary lymphoid organ

- (a) Spleen
- (b) Bursa fabricius
- (c) Bone marrow
- (d) Thymus
- (e) None of the above

84. The total number of t-RNA species that is to be present in a cell is

- (a) 61
- (b) 32
- (c) 36
- (d) 20
- (e) 24

85. The hydrogen supplier in the bacterial photosynthesis is

- (a) H₂O
- (b) H₂SO₄
- (c) H₂S
- (d) NADPH
- (e) None of the above

86. The energy that is built into the chemical substance that which pertains to the chemical bonds holding the atoms together is

- (a) Threshold energy
- (b) Free energy
- (c) Enthalpy
- (d) Entropy
- (e) Latent heat

87. Root hairs occur in the zone of

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Contact Number: 9350232207, 9891602060

- (a) Cell division
- (b) Cell elongation
- (c) Cell maturation
- (d) All the above
- (e) None of the above

88. One of the following cells does not help in phagocytosis

- (a) Monocytes
- (b) Synovial cells
- (c) Microglial cells
- (d) Mast cells

89. Common indicator organism of water pollution is

- (a) *Cholera vibrio*
- (b) *Entamoeba histolytica*
- (c) *Salmonella typhi*
- (d) *Escherinchia coli*
- (e) *Corchorus olitorius*

90. One of the following feature is possessed by bacterial cells but no the eukaryote cells Photosynthetic pigments

- (a) 9+2 arrangement of microtubules
- (b) A nucleoid with a circular chromosome
- (c) Membrane bound organelles
- (d) None of the above

91. The cell walls of fungi are composed of _____ when compared to plant cells

- (a) Produces spores
- (b) Is dependent on the sporophyte
- (c) Has tracheids but no vessel elements
- (d) Is haploid
- (e) Has a stalk like structure

92. The father of immunology is

- (a) Louis Pasteur
- (b) Edward Jenner
- (c) Alexander Flemming
- (d) E. chain
- (e) Selman Walkmann

93. The physical character of a trait is

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- (a) Allelomorphs
- (b) Genotype
- (c) Phenotype
- (d) Recessive allele
- (e) None of the above

94. The carriers of colour blindness in humans are

- (a) Mother
- (b) Father
- (c) Abnormal sex
- (d) Both 1 and 2
- (e) None of the above

95. A particular code in genetic code will always code for the same amino acid. So it is

- (a) Universal code
- (b) Non-ambiguous code
- (c) Degenerate code
- (d) Commaless code
- (e) Non-overlapping code

96. The sex determination of an offspring is due to

- (a) Size of ovum
- (b) Health of a father
- (c) Health of a mother
- (d) Father's sex chromosome /sperm
- (e) Mother's sex chromosome /ovum

97. Dixon proposed the ---

- (a) Osmotic pressure
- (b) Turgor pressure
- (c) Root pressure
- (d) Cohesion tension theory
- (e) Turgidity

98. The formation of peptide bond is a

- (a) Dehydrogenation process
- (b) Deamination process
- (c) Decarboxylation process
- (d) Dehydration process
- (e) Deacylation process

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99. Nucleotide arrangement in DNA can be seen by

- (a) X-ray crystallography
- (b) Electron microscope
- (c) Ultracentrifuge
- (d) Light microscope
- (e) Florescent microscope

100. Who stated that the transpiration is a necessary evil?

- (a) Stocking
- (b) Curtis
- (c) Taylor and Slatyer
- (d) Dixon
- (e) Van Helmont

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