

Grassroots Academy
New Delhi

(CSIR-NET/JRF) Test II

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FULL SYLLABUS TEST-2 (CSIR-NET/JRF)

1. Chlamydiosis is caused by _____
 - (a) Protozoan
 - (b) Bacteria
 - (c) Virus
 - (d) Fungus
2. Which one is the device that determines the next network point to which a packet is forwarded toward its destination
 - (a) All of the above
 - (b) Bitmap
 - (c) Router
 - (d) Trace route
3. Cytochrome Oxidase contains _____
 - (a) Zn
 - (b) Mn
 - (c) Mg
 - (d) Fe
4. Ovule in gymnosperms is generally
 - (a) Anatropous and unitegmic
 - (b) Anatropous and bitegmic
 - (c) Orthotropous and bitegmic
 - (d) Orthotropous and unitegmic
5. This is the basic Internet program that lets you verify that a particular Internet address exists and can accept requests.
 - (a) all
 - (b) URL
 - (c) NOC
 - (d) Ping
6. The term ATP was given by _____
 - (a) Flemming
 - (b) Fritz lipmann
 - (c) Bateson
 - (d) Pasteur
7. In *Trillium* and *Tradescantia* all the chromosomes are _____
 - (a) Acrocentric
 - (b) Metacentric

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- (c) Submetacentric
- (d) Telocentric

8. Spark discharge apparatus experiment was carried out by _____

- (a) Fox and Oparin
- (b) Spalanzani
- (c) Muller
- (d) Miller and Urey

9. Homologous organs indicate

- (a) Natural selection
- (b) Common descent
- (c) parallel evolution
- (d) Convergent evolution

10. The memories which do not lose their content on failure of power supply are known as non-volatile memories.

- (a) False
- (b) True

11. OCR stands for

- (a) None of these
- (b) Optical Character Reader
- (c) Optical Character Reporter
- (d) Optical Character Recognition

12. The term Pure line selection was first proposed by _____

- (a) Mather
- (b) Darlington
- (c) W.L. Johnson
- (d) Sinnot and Dunn

13. Auxin -B was extracted from _____

- (a) Porphyria Palmata
- (b) Malt and corn grain oil
- (c) Human urine
- (d) Castor seed

14. The infectious part of virus is known as _____

- (a) Envelope
- (b) Capsid
- (c) Nucleocapsid
- (d) Virion

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15. Cartilaginous Fishes do not have _____
- (a) Pelvic fin
 - (b) Gill-slits
 - (c) Operculum
 - (d) Scales
16. Angiosperms flourished during
- (a) Precambrian
 - (b) Coenozoic
 - (c) Palaeozoic
 - (d) Mesozoic
17. This is the smallest unit of data in a computer.
- (a) Byte
 - (b) Bit
 - (c) exabyte
 - (d) Bogomip
18. Animals of cold areas have shorter and smaller extremities. This is
- (a) Allen's law
 - (b) Bergman's law
 - (c) Dollo's law
 - (d) Cope's law
19. The study of action of drugs is known as
- (a) Pharmaceutical Chemistry
 - (b) Pharmacology
 - (c) Pharmacognosy
 - (d) Pathology
20. The offspring from a cross between 2 individuals differing in at least one set of characters is called _____
- (a) Hybrid
 - (b) Variant
 - (c) Mutant
 - (d) Polyploid
21. Normally all the individuals of a species have the same number of chromosomes. Closely related species usually have _____
- (a) None of these
 - (b) Similar chromosome Numbers
 - (c) Dissimilar chromosome numbers

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(d) Both A & B

22. GUI stands for

- (a) None
- (b) Graphical User Intranet
- (c) Graphical User Internet.
- (d) Graphical User Interface.

23. Jawless vertebrates are members of _____

- (a) Urochordata
- (b) Agnatha
- (c) Cephalochordata
- (d) Gnathostomata

24. Drug acyclovir is used for the treatment of _____

- (a) Genital Warts
- (b) Herpes
- (c) Gonorrhoea
- (d) AIDS

25. Which of these might cause a proto-oncogene to become an oncogene?

- (a) All of the above
- (b) Viral infection of the cell
- (c) Exposure of the cell to radiation
- (d) Chemical exposure

26. The study of fishes is called _____

- (a) Ornithology
- (b) Ichthyology
- (c) Herpetology
- (d) Saurology

27. The anterior half of the proximal convoluted tubule is the site of

- (a) Diuresis
- (b) Reabsorption of glucose
- (c) Action of aldosterone
- (d) Action by ADH

28. Which of the following is an inborn Metabolic error?

- (a) Cystinosis
- (b) Hartnup disease
- (c) Galactosemia
- (d) Tyrosenemia

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29. The monoxyclic secondary vasculature is found in _____ -

- (a) Gnetum
- (b) Pinus
- (c) Taxus
- (d) Both A and B

30. Mainframes computers are generally

- (a) None
- (b) 32-bit microprocessors.
- (c) 16-bit microprocessors.
- (d) 8-bit microprocessors.

31. Nocturnal periodicity is found in _____

- (a) all of these
- (b) Oxyurias
- (c) Enterobius
- (d) Microfilariae

32. Classical example of allopolyploidy are

- (a) Both a and c
- (b) Raphanobrassica
- (c) Aruna
- (d) Triticale

33. Who discovered Polytene chromosome?

- (a) Balbiani
- (b) Waldeyer
- (c) Fleming
- (d) Ris

34. In lampbrush chromosomes, the loops are made up of _____

- (a) None of these
- (b) Protein Only
- (c) DNA only
- (d) DNA & Protein

35. Who traced the insertion of proteinaceous material in the intine of "cosmos bipinnatus" pollen?

- (a) Makinene and Lewis
- (b) Alfezius
- (c) chambers & Godwin
- (d) Knox and Heslop-Harrison

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36. Pheromones are _____

- (a) Both A and B
- (b) Endohormones
- (c) Ectohormones
- (d) Growth regulators

37. This is the standard interactive and programming language for getting information from a database.

- (a) all
- (b) SQL
- (c) SSL
- (d) DCOM

38. The branch of Medical science which deals with the drugs from medicinal plants is _____

- (a) Pharmacology
- (b) Homeopathy
- (c) Ayurved
- (d) Pharmacognosy

39. PROM is secondary memory?

- (a) False
- (b) True

40. "Lock Jaw" is caused by _____

- (a) none of the above
- (b) Bacillus pertusis
- (c) Mycobacterium
- (d) Clostridium tetani

41. The task of performing arithmetic and logical operations is called

- (a) output
- (b) ALU
- (c) editing
- (d) storage

42. Bryophytes came in existence for the first time in _____ -

- (a) None of these
- (b) Triassic Period
- (c) Carboniferous Era
- (d) Silurian Era

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43. Sterilising Technique was first conceived by _____
- (a) Goldsmith and Frank
 - (b) E.F Knipling
 - (c) Zeidler
 - (d) Paul miller
44. HTML stands for
- (a) Human Text Markup Language
 - (b) Hyper Text Markup Language
 - (c) Hyper Text Machine Language
 - (d) Hyper Tele Markup Language
45. Grasses was supposed to have originated from _____
- (a) Myocene period
 - (b) Oligocene period
 - (c) Eocene period
 - (d) Jurrasic Period
46. Veliger larva occurs in phylum
- (a) Protozoa
 - (b) Mollusca
 - (c) Arthropoda
 - (d) Echinodermata
47. This is the measure of the range of frequencies a communication signal occupies.
- (a) Bandwidth
 - (b) Radian
 - (c) Frequency modulation
 - (d) frequency hopping Spread spectrum
48. EPROM stands for
- (a) All of the above
 - (b) Erasable Programmable Report Only Memory
 - (c) Erasable Programmable Reader Only Memory
 - (d) Erasable Programmable Read Only Memory
49. The enzymes of TCA Cycle for complete oxidation of pyruvic acid into CO₂ and H₂O are present in _____
- (a) Mesosomes
 - (b) Chloroplast
 - (c) Mitochondria
 - (d) Peroxisome

50. Transpiration Pull and Cohesion theory was first proposed by _____

- (a) Bose and Strasburger
- (b) Jolly and Sachs
- (c) Jolly and Dixon
- (d) Dixon and Sachs

51. The specific region of the enzymic protein which is involved in the Biochemical reaction is known as _____

- (a) Active centre
- (b) Substrate
- (c) Fermentation
- (d) Conjugated protein

52. The enzyme "Nitrate reductase" is a molybdoflavo protein with an operative sulphohydril group was first isolated by _____

- (a) Evans and Nason
- (b) Sachs and Bhor
- (c) Strasburger & Bose
- (d) Strasburger & Godlewski

53. Which of the following Algae is the copper container?

- (a) Both B and C
- (b) *Batrachospermum*
- (c) *Sarconema furcellatum*
- (d) *Acanthophora spicigera*

54. A tumor Supressor gene _____

- (a) does all of the above
- (b) Prevents cancer
- (c) Inhibits Cell division
- (d) Opposes oncogenes

55. Florigen is chemically made of

- (a) all
- (b) Giberellin and Anthesin
- (c) Auxin
- (d) Auxin & Anthesin

56. Wobble hypothesis establishes

- (a) Economy in tRNA molecules
- (b) Peptide chain formation
- (c) initiation of peptide chain
- (d) termination of peptide chain

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57. Which of the following causes "river blindness"?

- (a) *Dirofilaria immitis*
- (b) *Onchocerca volvulus*
- (c) *Acanthocheilonema perstans*
- (d) *Mansonella ozzardi*

58. Wings of pigeon, bat and mosquito exhibit the phenomenon called

- (a) All of above
- (b) Convergent evolution
- (c) Atavism
- (d) Divergent evolution

59. Who first discovered the Insecticidal properties of DDT?

- (a) Parker and Beacher
- (b) Muller
- (c) Kurt Alder
- (d) Otto diels

60. File Transfer Protocol, is an Internet utility software used to

- (a) None
- (b) Upload file
- (c) Download file
- (d) Both

61. How many pollen sacs are generally present in each anther lobe?

- (a) 4
- (b) 1
- (c) 2
- (d) 3

62. Magnetic tapes and magnetic disk are

- (a) All of the above
- (b) Secondary storage devices
- (c) Primary storage devices
- (d) Tertiary storage devices

63. Somatic hybridisation of potato and tomato produces_____

- (a) Aegilops
- (b) Pomato
- (c) Secale
- (d) Triticale

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64. How many C atoms are attached to Deoxyribose pentose sugar?
(a) 6
(b) 2
(c) 4
(d) 5
65. The ALU and CU jointly known as
(a) None
(b) RAM
(c) ROM
(d) CPU
66. How many meiotic division should take place to produce 100 pollen grains?
(a) 50
(b) 25
(c) 99
(d) 100
67. Golgi bodies are maximum in
(a) all
(b) Root cap
(c) Calyptrogen
(d) Root tip
68. Under which theory it was proposed that "Sun is made in the form of Giant Nebula"?
(a) Both B and C
(b) Modern Theory
(c) Geocentric Theory
(d) Heliocentric Theory
69. Oldest age when life existed on the earth is
(a) Archaeozoic
(b) Cenozoic
(c) Azoic
(d) Proterozoic
70. Elephentiasis disease is transmitted by _____
(a) Culex mosquito
(b) Tse-tse fly
(c) Sand fly
(d) House fly

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71. Formation of New DNA molecules from the parent DNA which are exactly similar to its replica is called _____

- (a) Replication of DNA
- (b) Terminalization Of DNA
- (c) Segementation of DNA
- (d) Gene mutation

72. Which of the following is/are the essential for accuracy of Chi-square test?

- (a) All of the above
- (b) Yate's correction
- (c) Lundegardh's cytochrome theory
- (d) Vernalization

73. If RBC's of a person having both A and B antigens, then his plasma will have _____

- (a) No antibodies
- (b) Antibody a
- (c) Antibody b
- (d) Both

74. Larger subunits of 80s ribosome is formed of

- (a) None
- (b) 40 proteins and 23s + 5srRNAs
- (c) 40 proteins and 28s + 5.8 s + 5srRNAs
- (d) 40 proteins and 23s + 5.8 s + 5srRNAs

75. Presence of Whole sets of chromosomes is called _____

- (a) None of these
- (b) Aneuploidy
- (c) Polyploidy
- (d) Euploidy

76. We determine the age of fossil with the help of _____

- (a) all of these
- (b) Radio Carbon dating
- (c) Deposition of Calcium
- (d) By counting rings formed inside the fossil

77. When does the chromosome exhibit the maximum coiling?

- (a) During telophase of Meiosis II
- (b) During Pachytene of Meiosis
- (c) During metaphase of meiosis
- (d) During anaphase of Meiosis I

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78. The process of producing results from the data for getting useful information

- (a) all
- (b) Storage
- (c) output
- (d) Processing

79. Lacteal is associated with _____

- (a) None of these
- (b) Secretion of Lactic acid
- (c) Absorption of lactic acid
- (d) Secretion of lipase

80. Late blight of potato is caused by

- (a) *Phytophthora infestans*
- (b) *Fusarium moniliforme*
- (c) *Alternaria solani*
- (d) *Albugo candida*

81. Which of the following animals can change its body color?

- (a) Cobra
- (b) Calotes
- (c) Hemidactylus
- (d) Varanus

82. Who isolated Kinetin?

- (a) Kurosawa
- (b) Paal
- (c) Yabuta
- (d) Miller

83. Leaf abscission takes place at _____

- (a) Margin of leaf
- (b) Internodes
- (c) Nodes
- (d) Base of petiole

84. The lowest chromosome number in plant is present in _____

- (a) *None of these*
- (b) *Ophioglossum*
- (c) *Gnetum*
- (d) *Haplopappus*

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85. Which of the following RNA has the highest Molecular weight?
- (a) all
 - (b) m-RNA
 - (c) t-RNA
 - (d) r-RNA
86. Ornithine cycle removes two waste products from blood in liver
- (a) ammonia and uric acid
 - (b) ammonia and urea
 - (c) Urea and carbon dioxide
 - (d) carbon dioxide and ammonia
87. The major drawbacks of First generation computers
- (a) all of these
 - (b) required large space for installation
 - (c) Power consumption was very high
 - (d) Programming capability was quite low.
88. Bacillary Dysentery is caused by
- (a) *Proteus*
 - (b) *Shigella*
 - (c) *Salomonella*
 - (d) *Entamoeba*
89. The vital theory of Godlewiski was discarded by _____
- (a) Bose
 - (b) Strasburger
 - (c) Leevan et al
 - (d) sachs
90. *Treponema pallidum* causes _____
- (a) Genital warts
 - (b) Syphilis
 - (c) Gonorrhoea
 - (d) Genital herpes
91. Which of the following scientist/Philosophers strongly supported that 'self Replication system' is a kind of life itself?
- (a) Louis Pasteur
 - (b) H.J Miller
 - (c) Sydney F. Fox
 - (d) A.I Oparin

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92. Anabolism is _____

- (a) None
- (b) Endergonic process
- (c) Exergonic process
- (d) Both

93. Multiple Forms of enzymes with the same catalytic activity but different structure are called as _____

- (a) Apoenzymes
- (b) Holoenzymes
- (c) Isoenzymes
- (d) Prosthetic groups

94. Darwin explained the long neck of Giraffe on the basis of _____

- (a) all of these
- (b) Substantive Variation
- (c) Discontinuous Variation
- (d) Continuous Variation

95. MICR stands for

- (a) None of these
- (b) Magnetic ink character recognition
- (c) Multiple ink character recognition
- (d) Mass ink character recognition

96. Cell with secretory function has abundant

- (a) Osteosome
- (b) ER
- (c) Lysosome
- (d) Dictyosome

97. Which of the following orders does not come under coniferophyta?

- (a) Gnetales
- (b) Cordaitales
- (c) Cycadofilicales
- (d) Ginkgoales

98. Out of 64 codons, 61 codons code for 20 amino acids, this suggests

- (a) Ambiguous nature of codons
- (b) Redundancy of codons

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- (c) Degeneracy of codons
- (d) Overlapping of codons

99. Function of Enterogastrone is _____

- (a) Stimulation of Pancreatic Juice flow
- (b) Regulation of Bile flow
- (c) Inhibition of Gastric secretion
- (d) stimulation of gastric secretion

100. A chemical process common in the digestion of all kinds of food in the lumen of GIT is _____

- (a) Emulsification
- (b) Condensation
- (c) Hydrolysis
- (d) Phosphorolysis

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