PREVIOUS YEAR PAPER

UP TGT 2021 — Biology (Series A)

UP TGT · 7 or 8 August 2021

125 questions · +4 for a correct answer, −0 for a wrong one · 120 minutes

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Questions from the U.P. Secondary Education Services Selection Board's paper of 7 or 8 August 2021. Each question is followed by its answer, and the answer key is repeated on the last page.

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Biology

1. Which of the following is responsible for the vibrations of the vocal cords during speech ?
   (a) Ligaments
   (b) Tendon
   (c) Inspired air
   (d) Expired air
   Answer: (d)

2. In Prokaryotes, of the following which is absent ?
   (a) Nuclear membrane
   (b) Mitochondria
   (c) Chloroplast
   (d) All of the above
   Answer: (d)

3. In which type of fossil, both the external as well as internal structure are preserved ?
   (a) Petrification
   (b) Pseudofossil
   (c) Compression
   (d) Incrustation
   Answer: (a)

4. In obelia colony which of the following is not covered by perisare ?
   (a) Hydranth
   (b) Blastostyle
   (c) Medusa
   (d) Coenosarc
   Answer: (c)

5. In the gastrulation process of Amphioxus which organogenesis occurs from the following ?
   (a) Neuralization
   (b) Notogenesis
   (c) Mesogenesis and Coelom
   (d) All of the above
   Answer: (d)

6. Chocolate is obtained from the seeds of
   (a) Erythroxylan coca
   (b) Theobroma cacao
   (c) Cola nitida
   (d) Catha edulis
   Answer: (b)

7. The existence of homologous structures suggests the occurrence of
   (a) Divergent evolution
   (b) Convergent evolution
   (c) Microevolution
   (d) Macroevolution
   Answer: (a)

8. Alginic acid is found in the
   (a) Cell wall of Red Algae
   (b) Cell wall of Blue-green Algae
   (c) Cell wall of Brown Algae
   (d) Cell wall of Green Algae
   Answer: (c)

9. _____ is not found in almost all plant cells.
   (a) Centriole
   (b) A large central vacuole
   (c) 70 S Ribosome
   (d) 80 S Ribosome
   Answer: (a)

10. Fasciola attaches to liver by
   (a) Four suckers
   (b) Two suckers
   (c) One sucker
   (d) Hooks only
   Answer: (b)

11. Spore sac in Funaria is formed by
    (a) Amphithecium
    (b) Endothecium
    (c) Collenchyma
    (d) Metamorphosis
    Answer: (b)

12. CO_2 acceptor in sugarcane is
    (a) Phosphoglycolic acid
    (b) Oxaloacetate
    (c) RuBp
    (d) Phosphoenolpyruvic acid
    Answer: (d)

13. What is the functions of Keber's Organ in Unio ?
    (a) Excretory
    (b) Vascular
    (c) Digestive
    (d) Reproductive
    Answer: (a)

14. Litmus is obtained from
    (a) Red Algae
    (b) Bryophyta
    (c) Lichen
    (d) All of the above
    Answer: (c)

15. Which of the following statements is not true about the Indian leech, Hirudinaria ?
    (a) Its medical use in India dates back to around 1000 BC.
    (b) It sucks blood from fish, frog, cattles and humans.
    (c) Digestion of the blood takes 10 to 14 months.
    (d) Its body cavity is well developed.
    Answer: (d)

16. In Uromastrix 'Y' shaped chevron bone is found in which vertebra ?
    (a) Caudal
    (b) Sacral
    (c) Thoracic
    (d) Atlas
    Answer: (a)

17. A modified protostele with central pith is known as
    (a) Siphonostele
    (b) Actinostele
    (c) Plectostele
    (d) None of these
    Answer: (a)

18. Proteins of animal origin lack
    (a) D-amino acid
    (b) Nitrogen
    (c) Phosphorus
    (d) Sulphur
    Answer: (a)

19. Formation of gametes in the gonads is known as
    (a) Spermatogenesis
    (b) Oogenesis
    (c) Gametogenesis
    (d) Genesis
    Answer: (c)

20. A dwarf shoot with two needles is found in
    (a) Pinus gerardiana
    (b) Pinus longifolia
    (c) Pinus monophyla
    (d) Pinus Sylvestris
    Answer: (d)

21. Which of the following statements is not true regarding Amphioxus ?
    (a) Notochord persists throughout life
    (b) Nerve cord dorsal to notochord
    (c) Brain absent; very little cephalization
    (d) Free swimming organism
    Answer: (a)

22. Of the following who coined the word Hormone ?
    (a) Charles Darwin
    (b) A. R. Wallace
    (c) E. H. Starling
    (d) A. Weismann
    Answer: (c)

23. Which wood is used in making railway sleepers ?
    (a) Shorea robusta
    (b) Morus alba
    (c) Madhuca indica
    (d) All
    Answer: (a)

24. In the absence of carbon dioxide the earth will be
    (a) As hot as Thar desert
    (b) As cold as moon
    (c) As green as rain forest
    (d) None of the above
    Answer: (b)

25. Floridean starch is the food reserve in
    (a) Phaeophyceae
    (b) Cyanophyceae
    (c) Bacillariophyceae
    (d) Rhodophyceae
    Answer: (d)

26. Nucleolus is the site for synthesis of
    (a) Protein
    (b) Messenger RNA
    (c) Transfer RNA
    (d) Ribosomal RNA
    Answer: (d)

27. Life cycle of Taenia is
    (a) Monogenetic
    (b) Digenetic
    (c) Polygenetic
    (d) Hexagenic
    Answer: (b)

28. Most common mycobionts in lichen belong to
    (a) Phycomycetes
    (b) Basidiomycetes
    (c) Ascomycetes
    (d) Deuteromycetes
    Answer: (c)

29. Respiratory Quotient (RQ) of organic acid is
    (a) Zero
    (b) One
    (c) Less than one
    (d) More than one
    Answer: (d)

30. The number of genera in the cephalochordata is
    (a) Two
    (b) Three
    (c) Four
    (d) Five
    Answer: (a)

31. How many chambers are present in heart of Frog ?
    (a) 2
    (b) 3
    (c) 4
    (d) 5
    Answer: (b)

32. Carinal canal found in which part of Equisetum ?
    (a) Protoxylem
    (b) Phloem
    (c) Cortex
    (d) Pith
    Answer: (a)

33. The digestive tract of human adult lacks _____ enzyme.
    (a) Pepsin
    (b) Lipase
    (c) Rennin
    (d) Trypsin
    Answer: (c)

34. Mendel's work of genetics was based upon which of the following ?
    (a) Andulusian Fowl
    (b) Oenothera Lamarkiana
    (c) Pisum Sativum
    (d) Drosophila
    Answer: (c)

35. 'Amber' is a fossilized form of
    (a) Petrified plant organ
    (b) Leaf coal
    (c) Hardened resinous secretion
    (d) Pseudofossil

    Answer: (c)

36. Sometimes a single gene defect produces many secondary effects. This is called
    (a) Polytropy
    (b) Pleiotropy
    (c) Homotropy
    (d) Heterotropy

    Answer: (b)

37. The incubation period in chick lasts for about how many days ?
    (a) 11
    (b) 21
    (c) 24
    (d) 31

    Answer: (b)

38. Beverage yielding plant Coffea arabica is a memb of the family
    (a) Apocynaceae
    (b) Rubiaceae
    (c) Acanthaceae
    (d) Solanaceae

    Answer: (b)

39. Which of the following is a secondary air pollutant ?
    (a) Methane
    (b) Benzene
    (c) Ozone
    (d) Carbon dioxide

    Answer: (c)

40. Property of nitrogen fixation is found in which given algae ?
    (a) Cyanophyta
    (b) Chlorophyta
    (c) Rhodophyta
    (d) Phaeophyta

    Answer: (a)

41. _____ was not given by Darwin.
    (a) Pangenesis theory
    (b) Mutation theory
    (c) Both
    (d) None
    Answer: (b)

42. In Nereis, the blood is pumped by
    (a) Heart
    (b) Dorsal blood vessel
    (c) Ventral blood vessel
    (d) Capillary
    Answer: (b)

43. Which of the following is called as “Wolf Moss” ?
    (a) Cetraria Islandica
    (b) Cladonia Rangiferina
    (c) Lecanora Esculenta
    (d) Letharea Vulpina
    Answer: (d)

44. Red drop effect was studied by
    (a) Van Niel
    (b) Blink
    (c) Emerson
    (d) Calvin
    Answer: (c)

45. Which of the following substance is fibrinolytic ?
    (a) Hemin
    (b) Thrombin
    (c) Plasmin
    (d) Prothrombin
    Answer: (c)

46. The excretory organ of Herdmania is
    (a) Green gland
    (b) Coxal gland
    (c) Neural gland
    (d) Organ of Bojans
    Answer: (c)

47. Rhizosphere is neither a root nor a shoot but it is an "organ sui-generis" according to scientist

(a) Van Teighem

(b) Trueb

(c) Harvey Gibson

(d) Bower and Goebel

Answer: (d)

48. Which of the following statements is true regarding enzymes ?

(a) All require a coenzyme for their activity.

(b) All are active at neutral pH.

(c) All require a molecule of water for their activity.

(d) All lower the energy of activation.

Answer: (d)

49. "Passing of like qualities from one generation to the next" is the definition of which of the following ?

(a) Variation

(b) Hereditary

(c) Heredity

(d) Inheritance

Answer: (c)

50. In Pinus, pollengrains dehisces at

(a) 2-celled stage

(b) 3-celled stage

(c) 4-celled stage

(d) 5-celled stage

Answer: (c)

51. Match List – I with List – II and select the correct answer using the codes given below.
List-I — List-II
a. Neomorph — 1. Interchromosomal rearrangement
b. Epistatic gene — 2. Masking the action of another gene
c. Codominance — 3. Produce a phenotype different from the wild gene
d. Translocation — 4. A character controlled by two genes
Code : a b c d

(a) 3 2 4 1

(b) 2 1 4 3

(c) 4 2 1 3

(d) 3 4 2 1

Answer: (a)

52. Of the following which is not the zoogeographic realm ?
    (a) Megagea
    (b) Neogea
    (c) Notogea
    (d) Palaearctic

    Answer: (d)

53. Peppermint is obtained from
    (a) Oscimum tenuiflorum
    (b) Trachyspermum ammi
    (c) Cuminum cyminum
    (d) Mentha piperita

    Answer: (d)

54. Of the following leucosolenia belongs to which class ?
    (a) Calcarea
    (b) Hexactinellida
    (c) Demospongia
    (d) Homocoela

    Answer: (a)

55. If the thallus of an organism e.g. a fungus is entire converted into one or more reproductive structures it is called as
    (a) Eucarpic
    (b) Holocarpic
    (c) Holozoic
    (d) Homothallic

    Answer: (b)

56. Watson and Crick model of DNA is
    (a) A Type
    (b) B Type
    (c) C Type
    (d) Z Type

    Answer: (b)

57. Of how many segments is Hirudinaria granulosus is made of ?
    (a) 23
    (b) 33
    (c) 43
    (d) 53

    Answer: (b)

58. Lichens are good indicator of
    (a) Water pollution
    (b) Air pollution
    (c) Soil pollution
    (d) None of the above

    Answer: (b)

59. _____ is the interaction in which one species is benefitted and the other is neither harmed nor benefitted.
    (a) Commensalism
    (b) Mutualism
    (c) Parasitism
    (d) Predation

    Answer: (a)

60. Volume of air inspired or expired during a normal respiration is termed as
    (a) Tidal volume
    (b) Residual volume
    (c) Vital capacity
    (d) Inspiratory reserve volume

    Answer: (a)

61. In Scoleodon how many pairs of cranial nerves a[illegible]resent ?
    (a) 9
    (b) 10
    (c) 11
    (d) 12

    Answer: (b)

62. A Siphonostele with non-overlapping (scattered) leaf gaps is called
    (a) Meristele
    (b) Eustele
    (c) Solenostele
    (d) Dictyostele

    Answer: (c)

63. Statocyst of prawn is found in the
    (a) Precoxa of antennule
    (b) Coxa of antenna
    (c) Coxa of antennule
    (d) Coxa of mandible

    Answer: (a)

64. Node of Ranvier are found on
    (a) Cyton
    (b) Axon
    (c) Dendrite
    (d) Synapse
    Answer: (b)

65. The other name of phellogen is
    (a) Cork Cambium
    (b) Secondary Cortex
    (c) Cork
    (d) None
    Answer: (a)

66. Which of the following is not a filter feeder ?
    (a) Unio
    (b) Amphioxus
    (c) Herdmania
    (d) Asterias
    Answer: (d)

67. In Bacteria, when many flagella present only at on ole, are known as
    (a) Monotrichous
    (b) Amphitrichous
    (c) Lophotrichous
    (d) Peritrichous
    Answer: (c)

68. In a trisomic, the polyploid chromosome is
    (a) 2n – 1
    (b) 2n – 2
    (c) 2n + 1
    (d) 2n + 2
    Answer: (c)

69. In Pila how many teeth are present in each row of radula ?
    (a) 21112
    (b) 11112
    (c) 10112
    (d) 10012
    Answer: (a)

70. Mosses and Ferns produce multicellular embryo within
(a) Antheridium
(b) Embryo sac
(c) Oogonium
(d) Archegonium
Answer: (d)

71. Alluvial soil is a type of
(a) Zonal soil
(b) Azonal soil
(c) Intrazonal soil
(d) None
Answer: (b)

72. General life cycle has the sequence
(a) 1N → Meiosis → 2N → Fertilization → 1N
(b) 2N → Meiosis → 1N → Fertilization → 2N
(c) 1N → Mitosis → 2N → Fertilization → 1N
(d) 2N → Mitosis → 1N → Fertilization → 2N
Answer: (b)

73. Of the following who challenged the Lamarkian th y ?
(a) Charles Darwin
(b) Hugo de Vries
(c) A. Weismann
(d) H. Spencer
Answer: (c)

74. Lodicule in family Graminae represents
(a) Leaf
(b) Bract
(c) Pedicel
(d) Perianth
Answer: (d)

75. Rhopalium of Aurelia is also called as
(a) Nematocyst
(b) Tentaculocyst
(c) Lappets
(d) Indentations
Answer: (b)

76. Multicellular rhizoids are found in
(a) Riccia
(b) Marchantia
(c) Funaria
(d) None
Answer: (c)

77. The alleles of a gene do not show any blending and both the characters are recovered as such in the F2 generation. This statement is
(a) Law of Dominance
(b) Law of Segregation
(c) Law of Independent Assortment
(d) Law of Natural Selection
Answer: (b)

78. Bacteriophage was discovered by
(a) Lworf, Horne and Tournier
(b) F. W. Twort and Felix d'Herelle independently
(c) D. J. Iwonowski
(d) Beijerinck
Answer: (b)

79. The parasympathetic nervous system does not
(a) Slow heart beat
(b) Constrict bronchioles
(c) Stimulate salivary secretion
(d) Stimulate peristalsis
Answer: (b)

80. Medulary bundles are present in many plants, except
(a) Mirabilis
(b) Bougainvillea
(c) Amaranthus
(d) Nyctanthus
Answer: (d)

81. The spermatozoids of cycas are
(a) Top-shaped, multiciliated
(b) Biciliated
(c) Non-ciliated
(d) All of the above
Answer: (a)

82. The pecten of Columba (Pigeon) is derived from
    (a) Choroid
    (b) Retina
    (c) Sclera
    (d) Lens
    Answer: (a)

83. Double circulation and double respiration is found respectively in
    (a) Scoliodon and Rana
    (b) Oryctolagus and Columba
    (c) Uromastix and Rana
    (d) Rana and Columba
    Answer: (b)

84. Inflorescence of family lamiaceae is
    (a) Dichasial cyme
    (b) Verticillaster
    (c) Both (A) and (B)
    (d) Cymose
    Answer: (c)

85. The body of the Tadpole larva shows distinct
    (a) Head
    (b) Trunk
    (c) Tail
    (d) All of the above
    Answer: (d)

86. The hind wings of housefly are modified into little halteres. During flight these
    (a) Do not beat
    (b) Beat at same rate as fore wings
    (c) Beat faster than fore wings
    (d) Beat slower than fore wings
    Answer: (c)

87. The embryo sac is bounded by the wall of _____.
    (a) Megasporophyll
    (b) Endosperm
    (c) Megasporangium
    (d) Megaspore
    Answer: (c)

88. The virion is
    (a) Nucleocapsid
    (b) Capsid
    (c) Nucleic acid
    (d) None of the above

    Answer: (a)

89. Which of the following hormones does not bind to cell-surface receptors ?
    (a) T S H
    (b) P T H
    (c) F S H
    (d) Testosterone

    Answer: (d)

90. Which of the following is an example of analogy ?
    (a) Sweet potato and potato
    (b) Thorn of Bougainvillea and tendril of cucurbitaceae
    (c) Both
    (d) None

    Answer: (a)

91. Branched conidiophore is found in
    (a) Penicillium
    (b) Rhizopus
    (c) Ustilago
    (d) Saccharomyces

    Answer: (a)

92. Paramecin is produced by which particle of Paramecium ?
    (a) Kappa
    (b) Pi
    (c) Mu
    (d) Lambda

    Answer: (a)

93. What determines the diffusion of water from one cell to other ?
    (a) OP
    (b) WP
    (c) DPD
    (d) TP

    Answer: (c)

94. Fruits are not produced in Gymnosperms because they are
    (a) Without pollination
    (b) Without fertilization
    (c) Seedless plants
    (d) Without any ovary

    Answer: (d)

95. What is the dental formula of Rabbit ?
    (a) i 1/1, c 1/1, p 3/3, m 3/3
    (b) i 1/1, c 1/1, p 2/2, m 3/3
    (c) i 2/1, c 0/0, p 3/2, m 3/3
    (d) i 2/2, c 0/0, p 3/3, m 2/2

    Answer: (c)

96. Which of the following parts of the mammalian nephron is found in renal medulla ?
    (a) Glomerulus
    (b) Distal convoluted tubule
    (c) Proximal convoluted tubule
    (d) Loop of Henle

    Answer: (d)

97. The type of phyllotaxi in Nerium sp. is
    (a) Distichous
    (b) Pentastichous
    (c) Octostichous
    (d) Whorled

    Answer: (d)

98. Relationship between producers and consumers of different orders are called
    (a) Food chain
    (b) Food web
    (c) Food cycle
    (d) Both (B) and (C)

    Answer: (a)

99. In cockroach, the endoskeletal structure, tentorium is found in the
    (a) Mandibles
    (b) Thorax
    (c) Abdomen
    (d) Head

    Answer: (d)

100. In eukaryotic cell, the arrangement of axonemal microtubules in _____ is referred to as the 9 + 2 array.

(a) Cillia
(b) Flagella
(c) Both
(d) None

Answer: (c)

101. Methanogenic bacteria belong to

(a) Mycoplasma
(b) Eubacteria
(c) Cyanobacteria
(d) Archebacteria

Answer: (d)

102. Which of the following is an essential fatty acid ?

(a) Acetic acid
(b) Propionic acid
(c) Palmitic acid
(d) Linoleic acid

Answer: (d)

103. Hardy-Weinberg equilibrium is affected by

(a) Mutation
(b) Natural selection
(c) None
(d) Both

Answer: (d)

104. The species of Puccinea that causes Yellow Rust of wheat is

(a) P. helianthii
(b) P. purpuria
(c) P. striiformis
(d) P. recondita

Answer: (c)

105. Of the following Euglena belongs to which class ?

(a) Phytomastigophora
(b) Zoomastigophora
(c) Rhizopoda
(d) Actinopoda

Answer: (a)

106. Obliquely placed ovary, epipetalous condition and axile placentation is found in
(a) Liliaceae
(b) Graminae
(c) Solanaceae
(d) Malvaceae
Answer: (c)

107. Of the following who started the study of Geographical distribution of animals ?
(a) P. L. Sclater
(b) A. R. Wallace
(c) C. Darwin
(d) H. Spencer
Answer: (b)

108. The formation of gonads in Hydra is stimulated by
(a) Lack of oxygen
(b) Abundance of carbon dioxide
(c) c-AMP
(d) Alanine
Answer: (b)

109. Gram-positive Bacteria are characterised by
(a) Presence of Techoic acid in cell wall
(b) High percentage of peptidoglycans in cell w
(c) Low percentage of Lipid
(d) All of the above
Answer: (d)

110. Which is a bisporic type embryo sac ?
(a) Polygonum
(b) Oenothora
(c) Allium
(d) Adoxa
Answer: (c)

111. Globular proteins do not act as
(a) Enzyme
(b) Structural molecule
(c) Hormone
(d) Antibody
Answer: (b)

112. In family caryophylaceae, placentation is
(a) Free central
(b) Parietal
(c) Basal
(d) Axile
Answer: (a)

113. The partially isolated populations are known as
(a) Clone
(b) Deme
(c) Hybrid
(d) Niche
Answer: (b)

114. Number of testes found in adult Ascaris is
(a) 6
(b) 2
(c) 1
(d) 3
Answer: (c)

115. Which of the following statement is not correct ?
(a) Auxins are effective in producing parthenoca[illegible] fruit.
(b) Parthenocarpic fruits are seedless.
(c) Only gibberellins are effective in pro[illegible]rthenocarpic fruit.
(d) Parthenocarpy escapes fertilization.
Answer: (c)

116. On the basis of the amount of yolk and its distribution, the eggs of frog are
(a) Microlecithal and centrolecithal
(b) Polylecithal and isolecithal
(c) Mesolecithal and telolecithal
(d) Mesolecithal and isolecithal
Answer: (c)

117. In Pheretima, the septal nephridia are found in all septa behind _____ segments.
(a) 14/15
(b) 4/6
(c) 1/2
(d) 9/10
Answer: (a)

118. Which of the following statement is false regarding Bryophyta ?

(a) They are photosynthetic.

(b) Their spores germinate producing ganetophyte.

(c) Zygote undergoes meiosis.

(d) They lac vascular tisses.

Answer: (c)

119. The _____ of Puccinia graminis is formed on wheat.

(a) Basidiospore

(b) Uredospore

(c) Pycniospore

(d) Acciospore

Answer: (b)

120. Which of the following codons usually codes for valine but can also code for formylated-methionine as initiator codon ?

(a) G U G

(b) U G A

(c) U G U

(d) A G U

Answer: (a)

121. In Sycon which type of canal system is found ?

(a) Ascon

(b) Sycon

(c) Leucon

(d) Rhagon

Answer: (b)

122. In embryo sac, filiform apparatus is found in

(a) Egg cell

(b) Central cell

(c) Antipodal cell

(d) Synergid cell

Answer: (d)

123. Which one of the following is a double-stranded RNA (ds-RNA) virus ?

(a) Rotavirus

(b) Influenza virus

(c) Tospovirus

(d) Rhabdovirus

Answer: (a)

124. Theory of origin of species by natural selection was given by

(a) Charles Darwin

(b) A. Wallace

(c) A. Weismann

(d) H. Spencer

Answer: (a)

125. The relationship between mosquito and malaria was discovered by

(a) Ronald Ross

(b) Pasteur

(c) William Harvey

(d) Needham

Answer: (a)

Answer key

Answer key from the U.P. Secondary Education Services Selection Board's official answer key for this sitting. "—" means the key gave none.

Biology

1	**(d)**	2	**(d)**	3	**(a)**	4	**(c)**	5	**(d)**	6	**(b)**
7	**(a)**	8	**(c)**	9	**(a)**	10	**(b)**	11	**(b)**	12	**(d)**
13	**(a)**	14	**(c)**	15	**(d)**	16	**(a)**	17	**(a)**	18	**(a)**
19	**(c)**	20	**(d)**	21	**(a)**	22	**(c)**	23	**(a)**	24	**(b)**
25	**(d)**	26	**(d)**	27	**(b)**	28	**(c)**	29	**(d)**	30	**(a)**
31	**(b)**	32	**(a)**	33	**(c)**	34	**(c)**	35	**(c)**	36	**(b)**
37	**(b)**	38	**(b)**	39	**(c)**	40	**(a)**	41	**(b)**	42	**(b)**
43	**(d)**	44	**(c)**	45	**(c)**	46	**(c)**	47	**(d)**	48	**(d)**
49	**(c)**	50	**(c)**	51	**(a)**	52	**(d)**	53	**(d)**	54	**(a)**
55	**(b)**	56	**(b)**	57	**(b)**	58	**(b)**	59	**(a)**	60	**(a)**
61	**(b)**	62	**(c)**	63	**(a)**	64	**(b)**	65	**(a)**	66	**(d)**
67	**(c)**	68	**(c)**	69	**(a)**	70	**(d)**	71	**(b)**	72	**(b)**
73	**(c)**	74	**(d)**	75	**(b)**	76	**(c)**	77	**(b)**	78	**(b)**
79	**(b)**	80	**(d)**	81	**(a)**	82	**(a)**	83	**(b)**	84	**(c)**
85	**(d)**	86	**(c)**	87	**(c)**	88	**(a)**	89	**(d)**	90	**(a)**
91	**(a)**	92	**(a)**	93	**(c)**	94	**(d)**	95	**(c)**	96	**(d)**
97	**(d)**	98	**(a)**	99	**(d)**	100	**(c)**	101	**(d)**	102	**(d)**
103	**(d)**	104	**(c)**	105	**(a)**	106	**(c)**	107	**(b)**	108	**(b)**
109	**(d)**	110	**(c)**	111	**(b)**	112	**(a)**	113	**(b)**	114	**(c)**
115	**(c)**	116	**(c)**	117	**(a)**	118	**(c)**	119	**(b)**	120	**(a)**
121	**(b)**	122	**(d)**	123	**(a)**	124	**(a)**	12	**(a)**		