D

46. A disease caused by an autosomal primary non-disjunction is

(1) Turner's Syndrome

(2) Sickle Cell Anemia

(3) Down's Syndrome

(4) Klinefelter's Syndrome

47. A dioecious flowering plant prevents both

(1) Geitonogamy and xenogamy

(2) Cleistogamy and xenogamy

Autogamy and xenogamy.

(4) Autogamy and geitonogamy

48. Attractants and rewards are required for :

(1) Hydrophily

(2) Cleistogamy

(3) Anemophily

(4) Entomophily

49. Alexander Von Humbolt described for the first time :

(1) Species area relationships

(2) Population Growth equation

(3) Ecological Biodiversity

(4) Laws of limiting factor

50. Which of the following cell organelles is responsible for extracting energy from carbohydrates to form ATP ?

(1) Chloroplast

(2) Mitochondrion

(3) Lysosome

(4) Ribosome

51. Zygotic meiosis is characteristic of :

(1) *Funaria*

(2) *Chlamydomonas*

(3) *Marchantia*

(4) *Fucus*

52. Good vision depends on adequate intake of carotene-rich food.

Select the best option from the following statements.

(a) Vitamin A derivatives are formed from carotene.

(b) The photopigments are embedded in the membrane discs of the inner segment.

(c) Retinal is a derivative of Vitamin A.

(d) Retinal is a light absorbing part of all the visual photopigments.

Options :

(1) (a) and (c)

(2) (b), (c) and (d)

(3) (a) and (b)

(4) (a), (c) and (d)

53. Among the following characters, which one was not considered by Mendel in his experiments on pea ?

(1) Seed - Green or Yellow

(2) Pod - Inflated or Constricted

(3) Stem - Tall or Dwarf

(4) Trichomes - Glandular or non-glandular

54. The association of histone H1 with a nucleosome indicates :

(1) The DNA is condensed into a Chromatin Fibre.

(2) The DNA double helix is exposed.

(3) Transcription is occurring.

(4) DNA replication is occurring.

55. The pivot jomt between atlas and axis is a type of :

(1) synovial joint

(2) saddle joint

(3) fibrous joint

(4) cartilaginous joint

56. Receptor sites for neurotransmitters are present on :

(1) tips of axons

(2) post-synaptic membrane

(3) membranes of synaptic vesicles

(4) pre-synaptic membrane

57. GnRH, a hypothalamic hormone, needed in reproduction, acts on :

(1) posterior pituitary gland and stimulates secretion of oxytocin and FSH.

(2) posterior pituitary gland and stimulates secretion of LH and relaxin.

(3) anterior pituitary gland and stimulates secretion of LH and oxytocin.

anterior pituitary gland and stimulates secretion of LH and FSH.

58. Hypersecretion of Growth Hormone in adults does not cause further increase in height, because :

(1) Bones loose their sensitivity to Growth Hormone in adults.

Muscle fibres do not grow in size after birth.

(3) Growth Hormone becomes inactive in adults.

(4) Epiphyseal plates close after adolescence.

59. Select the mismatch

(1)	*Anabaena*	Nitrogen fixer
(2)	*Rhizobium*	Alfalfa
(3)	*Frankia*	*Alnus*
(4)	*Rhodospirillum*	Mycorrhiza

60. Which one of the following statements is not valid for aerosols ?

(1) They cause increased agricultural productivity

They have negative impact on agricultural land

(3) They are harmful to human health

(4) They alter rainfall and monsoon patterns

61. Which one of the following is related to Ex-situ conservation of threatened animals and plants ?

(1) Amazon rainforest

(2) Himalayan region

(3) Wildlife Safari parks

(4) Biodiversity hot spots

62. Which of the following facilitates opening of stomatal aperture ?

(1) Radial orientation of cellulose microfibrils in the cell wall of guard cells

(2) Longitudinal orientation of cellulose microfibrils in the cell wall of guard cells

(3) Contraction of outer wall of guard cells

(4) Decrease in turgidity of guard cells

63. Select the mismatch :

(1)	*Salvinia*	Heterosporous
(2)	*Equisetum*	Homosporous
(3)	*Pinus*	Dioecious
(4)	*Cycas*	Dioecious

64. Asymptote in a logistic growth curve is obtained when :

(1) $K > N$

(2) $K < N$

(3) The value of 'r' approaches zero

(4) $K = N$

65. The process of separation and purification of expressed protein before marketing is called

(1) Bioprocessing

(2) Postproduction processing

(3) Upstream processing

(4) Downstream processing

66. The water potential of pure water is :

(1) More than zero but less than one

(2) More than one

(3) Zero

(4) Less than zero

67 The function of copper ions in copper releasing IUD's is :

(1) They make uterus unsuitable for implantation.

(2) They inhibit ovulation.

(3) They suppress sperm motility and fertilising capacity of sperms.

(4) They inhibit gametogenesis.

68. Double fertilization is exhibited by :

(1) Fungi

(2) Angiosperms

(3) Gymnosperms

(4)

D

69. Presence of plants arranged into well defined vertical layers depending on their height can be seen best in .
(1) Grassland
(2) Temperate Forest
(3) Tropical Savannah
(4) Tropical Rain Forest

70. Which ecosystem has the maximum biomass ?
(1) Pond ecosystem
(2) Lake ecosystem
(3) Forest ecosystem
(4) Grassland ecosystem

71. Root hairs develop from the region of :
(1) Root cap
(2) Meristematic activity
(3) Maturation
(4) Elongation

72. DNA replication in bacteria occurs
(1) Prior to fission
(2) Just before transcription
(3) During S phase
(4) Within nucleolus

73. Homozygous purelines in cattle can be obtained by :
(1) mating of individuals of different breed.
(2) mating of individuals of different species
mating of related individuals of same breed.
(4) mating of unrelated individuals of same breed.

74. In Bougainvillea thorns are the modifications of .
(1) Stem
(2) Leaf
(3) Stipules
(4) Adventitious root

75. A decrease in blood pressure/volume will not cause the release of
(1) Aldosterone
(2) ADH
(3) Renin
(4) Atrial Natriuretic Factor

76. Which statement is wrong for Krebs' cycle ?
(1) During conversion of succinyl CoA to succinic acid, a molecule of GTP is synthesised
(2) The cycle starts with condensation of acetyl group (acetyl CoA) with pyruvic acid to yield citric acid
(3) There are three points in the cycle where NAD^+ is reduced to $NADH + H^+$
(4) There is one point in the cycle where FAD^+ is reduced to $FADH_2$

77. Anaphase Promoting Complex (APC) is a protein degradation machinery necessary for proper mitosis of animal cells. If APC is defective in a human cell, which of the following is expected to occur ?
(1) Chromosomes will not segregate
(2) Recombination of chromosome arms will occur
(3) Chromosomes will not condense
(4) Chromosomes will be fragmented

78. Which of the following options best represents the enzyme composition of pancreatic juice ?
(1) peptidase, amylase, pepsin, renin
(2) lipase, amylase, trypsinogen, procarboxypeptidase
(3) amylase, peptidase, trypsinogen, rennin
(4) amylase, pepsin, trypsinogen, maltase

79. Life cycle of *Ectocarpus* and *Fucus* respectively are :
Haplodiplontic, Diplontic
(2) Haplodiplontic, Haplontic
(3) Haplontic, Diplontic
(4) Diplontic, Haplodiplontic

80. Which of the following is made up of dead cells ?
(1) Phellem
(2) Phloem
(3) Xylem parenchyma
(4) Collenchyma

81. Which of the following is correctly matched for the product produced by them ?
(1) *Penicillium notatum* : Acetic acid
(2) *Sacchromyces cerevisiae* : Ethanol
(3) *Acetobacter aceti* : Antibiotics
(4) *Methanobacterium* : Lactic acid

82. Fruit and leaf drop at early stages can be prevented by the application of :

(1) Auxins
(2) Gibberellic acid
(3) Cytokinins
(4) Ethylene

83. Viroids differ from viruses in having .

(1) RNA molecules with protein coat
(2) RNA molecules without protein coat
(3) DNA molecules with protein coat
(4) DNA molecules without protein coat

Which of the following are not polymeric ?

(1) Polysaccharides
(2) Lipids
(3) Nucleic acids
(4) Proteins

85. A temporary endocrine gland in the human body is :

(1) Corpus luteum
(2) Corpus allatum
(3) Pineal gland
(4) Corpus cardiacum

86. Phosphoenol pyruvate (PEP) is the primary CO_2 acceptor in .

(1) C_2 plants
(2) C_3 and C_4 plants
(3) C_3 plants
(4) C_4 plants

87. Plants which produce characteristic pneumatophores and show vivipary belong to :

(1) Psammophytes
(2) Hydrophytes
(3) Mesophytes
(4) Halophytes

88. Mycorrhizae are the example of :

(1) Antibiosis
(2) Mutualism
(3) Fungistasis
(4) Amensalism

89. If there are 999 bases in an RNA that codes for a protein with 333 amino acids, and the base at position 901 is deleted such that the length of the RNA becomes 998 bases, how many codons will be altered ?

(1) 33
(2) 333
(3)
(4) 11

90. A gene whose expression helps to identify transformed cell is known as

(1) Plasmid
(2) Structural gene
(3) Selectable marker
(4) Vector

91. Which of the following are found in extreme saline conditions ?

(1) Cyanobacteria
(2) Mycobacteria
(3) Archaebacteria
(4) Eubacteria

92. Out of 'X' pairs of ribs in humans only 'Y' pairs are true ribs. Select the option that correctly represents values of X and Y and provides their explanation :

(1) X = 24, Y = 7 True ribs are dorsally attached to vertebral column but are free on ventral side.
(2) X = 24, Y = 12 True ribs are dorsally attached to vertebral column but are free on ventral side.
(3) X = 12, Y = 7 True ribs are attached dorsally to vertebral column and ventrally to the sternum.
(4) X = 12, Y = 5 True ribs are attached dorsally to vertebral column and sternum on the two ends.

93. MALT constitutes about _____ percent of the lymphoid tissue in human body.

(1) 70%
(2) 10%
(3) 50%
(4) 20%

D

94. Which one from those given below is the period for Mendel's hybridization experiments ?

(1) 1857 - 1869

(2) 1870 - 1877

1856 - 1863

(4) 1840 - 1850

95. Adult human RBCs are enucleate. Which of the following statement(s) is/are most appropriate explanation for this feature ?

(a) They do not need to reproduce

(b) They are somatic cells

(c) They do not metabolize

(d) All their internal space is available for oxygen transport

Options :

(1) (a), (c) and (d)

(2) (b) and (c)

(3) Only (d)

(4) Only (a)

96. Myelin sheath is produced by :

(1) Oligodendrocytes and Osteoclasts

(2) Osteoclasts and Astrocytes

(3) Schwann Cells and Oligodendrocytes

(4) Astrocytes and Schwann Cells

97. Which of the following statements is correct ?

(1) The ascending limb of loop of Henle is permeable to water.

(2) The descending limb of loop of Henle is permeable to electrolytes.

(3) The ascending limb of loop of Henle is impermeable to water.

(4) The descending limb of loop of Henle is impermeable to water.

98. During DNA replication, Okazaki fragments are used to elongate :

(1) The leading strand away from replication fork.

(2) The lagging strand away from the replication fork.

(3) The leading strand towards replication fork.

(4) The lagging strand towards replication fork.

99. Which one of the following statements is correct, with reference to enzymes ?

(1) Coenzyme = Apoenzyme + Holoenzyme

(2) Holoenzyme = Coenzyme + Co-factor

(3) Apoenzyme = Holoenzyme + Coenzyme

(4) Holoenzyme = Apoenzyme + Coenzyme

100. DNA fragments are :

(1) Neutral

(2) Either positively or negatively charged depending on their size

(3) Positively charged

(4) Negatively charged

101. The DNA fragments separated on an agarose gel can be visualised after staining with

(1) Aniline blue

(2) Ethidium bromide

(3) Bromophenol blue

(4) Acetocarmine

102. Which among the following are the smallest living cells, known without a definite cell wall, pathogenic to plants as well as animals and can survive without oxygen ?

(1) Mycoplasma

(2) *Nostoc*

(3) *Bacillus*

(4) *Pseudomonas*

103. The morphological nature of the edible part of coconut is :

(1) Endosperm

(2) Pericarp

(3) Perisperm

(4) Cotyledon

104. Select the correct route for the passage of sperms in male frogs :

(1) Testes → Vasa efferentia → Bidder's canal → Ureter → Cloaca

Testes → Vasa efferentia → Kidney → Bidder's canal → Urinogenital duct → Cloaca

(3) Testes → Bidder's canal → Kidney → Vasa efferentia → Urinogenital duct → Cloaca

(4) Testes → Vasa efferentia → Kidney → Seminal Vesicle → Urinogenital duct → Cloaca

105. Identify the **wrong** statement in context of heartwood :

(1) It conducts water and minerals efficiently

(2) It comprises dead elements with highly lignified walls

(3) Organic compounds are deposited in it

(4) It is highly durable

106. Transplantation of tissues/organs fails often due to non-acceptance by the patient's body. Which type of immune-response is responsible for such rejections ?

(1) Hormonal immune response

(2) Physiological immune response

(3) Autoimmune response

(4) Cell - mediated immune response

107. The region of Biosphere Reserve which is legally protected and where no human activity is allowed is known as :

(1) Transition zone

(2) Restoration zone

(3) Core zone

(4) Buffer zone

108. Thalassemia and sickle cell anemia are caused due to a problem in globin molecule synthesis. Select the **correct** statement.

(1) Thalassemia is due to less synthesis of globin molecules.

(2) Sickle cell anemia is due to a quantitative problem of globin molecules.

(3) Both are due to a qualitative defect in globin chain synthesis.

(4) Both are due to a quantitative defect in globin chain synthesis.

109. Flowers which have single ovule in the ovary and are packed into inflorescence are usually pollinated by :

(1) Wind

(2) Bat

(3) Water

(4) Bee

110. An important characteristic that Hemichordates share with Chordates is

(1) pharynx with gill slits

(2) pharynx without gill slits

(3) absence of notochord

(4) ventral tubular nerve cord

111. Which of the following options gives the **correct** sequence of events during mitosis ?

(1) condensation → crossing over → nuclear membrane disassembly → segregation → telophase

(2) condensation → arrangement at equator → centromere division → segregation → telophase

(3) condensation → nuclear membrane disassembly → crossing over → segregation → telophase

(4) condensation → nuclear membrane disassembly → arrangement at equator → centromere division → segregation → telophase

112. The final proof for DNA as the genetic material came from the experiments of :

(1) Avery, Mcleod and McCarty

(2) Hargobind Khorana

(3) Griffith

(4) Hershey and Chase

113. What is the criterion for DNA fragments movement on agarose gel during gel electrophoresis ?

(1) Positively charged fragments move to farther end

(2) Negatively charged fragments do not move

(3) The larger the fragment size, the farther it moves

(4) The smaller the fragment size, the farther it moves

D

114. With reference to factors affecting the rate of photosynthesis, which of the following statements is not correct ?

(1) C_3 plants respond to higher temperatures with enhanced photosynthesis while C_4 plants have much lower temperature optimum

Tomato is a greenhouse crop which can be grown in CO_2 - enriched atmosphere for higher yield

(3) Light saturation for CO_2 fixation occurs at 10% of full sunlight

(4) Increasing atmospheric CO_2 concentration up to 0.05% can enhance CO_2 fixation rate

115. Artificial selection to obtain cows yielding higher milk output represents :

(1) disruptive as it splits the population into two, one yielding higher output and the other lower output.

(2) stabilizing followed by disruptive as it stabilizes the population to produce higher yielding cows.

(3) stabilizing selection as it stabilizes this character in the population.

(4) directional as it pushes the mean of the character in one direction.

116. Which of the following in sewage treatment removes suspended solids ?

(1) Primary treatment

(2) Sludge treatment

(3) Tertiary treatment

(4) Secondary treatment

117. Spliceosomes are not found in cells of :

(1) Animals

(2) Bacteria

(3) Plants

(4) Fungi

118. Functional megaspore in an angiosperm develops into .

(1) Embryo sac

(2) Embryo

(3) Ovule

(4) Endosperm

119. Which of the following components provides sticky character to the bacterial cell ?

(1) Plasma membrane

(2) Glycocalyx

(3) Cell wall

(4) Nuclear membrane

120. Which among these is the **correct** combination of aquatic mammals ?

(1) Whales, Dolphins, Seals

(2) *Trygon*, Whales, Seals

(3) Seals, Dolphins, Sharks

(4) Dolphins, Seals, *Trygon*

121. Which of the following represents order of 'Horse' ?

(1) Caballus

(2) Ferus

(3) Equidae

(4) Perissodactyla

122. Lungs are made up of air-filled sacs, the alveoli. They do not collapse even after forceful expiration, because of :

(1) Tidal Volume

(2) Expiratory Reserve Volume

(3) Residual Volume

(4) Inspiratory Reserve Volume

123. Capacitation occurs in :

(1) Vas deferens

(2) Female Reproductive tract

(3) Rete testis

(4) Epididymis

124. Which of the following RNAs should be most abundant in animal cell ?

(1) m-RNA

(2) mi-RNA

(3) r-RNA

(4) t-RNA

125. Which cells of 'Crypts of Lieberkuhn' secrete antibacterial lysozyme ?

(1) Zymogen cells

(2) Kupffer cells

(3) Argentaffin cells

(4) Paneth cells

126. In case of a couple where the male is having a very low sperm count, which technique will be suitable for fertilisation ?

(1) Artificial Insemination

(2) Intracytoplasmic sperm injection

(3) Intrauterine transfer

(4) Gamete intracytoplasmic fallopian transfer

127. Frog's heart when taken out of the body continues to beat for sometime.

Select the best option from the following statements.

(a) Frog is a poikilotherm.

(b) Frog does not have any coronary circulation.

(c) Heart is "myogenic" in nature.

(d) Heart is autoexcitable.

Options :

(1) (a) and (b)

(2) (c) and (d)

Only (c)

(4) Only (d)

128. Match the following sexually transmitted diseases (Column - I) with their causative agent (Column - II) and select the correct option.

	Column - I		Column - II
(a)	Gonorrhea	(i)	HIV
(b)	Syphilis	(ii)	*Neisseria*
(c)	Genital Warts	(iii)	*Treponema*
(d)	AIDS	(iv)	Human Papilloma - Virus

Options :

	(a)	(b)	(c)	(d)
(1)	(iv)	(ii)	(iii)	(i)
(2)	(iv)	(iii)	(ii)	(i)
(3)	(ii)	(iii)	(iv)	(i)
(4)	(iii)	(iv)	(i)	(ii)

129. The genotypes of a Husband and Wife are I^AI^B and I^Ai.

Among the blood types of their children, how many different genotypes and phenotypes are possible ?

(1) 4 genotypes, 3 phenotypes

(2) 4 genotypes ; 4 phenotypes

(3) 3 genotypes ; 3 phenotypes

(4) 3 genotypes ; 4 phenotypes

130. The hepatic portal vein drains blood to liver from :

(1) Kidneys

(2) Intestine

(3) Heart

(4) Stomach

131. Coconut fruit is a .

(1) Nut

(2) Capsule

(3) Drupe

(4) Berry

132. The vascular cambium normally gives rise to :

(1) Secondary xylem

(2) Periderm

(3) Phelloderm

(4) Primary phloem

D

133. In case of poriferans, the spongocoel is lined with flagellated cells called

(1) choanocytes

(2) mesenchymal cells

(3) ostia

(4) oscula

134. A baby boy aged two years is admitted to play school and passes through a dental check - up. The dentist observed that the boy had twenty teeth. Which teeth were absent ?

(1) Pre-molars

(2) Molars

(3) Incisors

(4) Canines

135. An example of colonial alga is

(1) *Ulothrix*

(2) *Spirogyra*

(3) *Chlorella*

(4) *Volvox*

136. An example of a sigma bonded organometallic compound is :

(1) Ferrocene

(2) Cobaltocene

(3) Ruthenocene

(4) Grignard's reagent

137. Which one is the correct order of acidity ?

(1) $CH \equiv CH > CH_2 = CH_2 > CH_3 - C \equiv CH > CH_3 - CH_3$

(2) $CH_3 - CH_3 > CH_2 = CH_2 > CH_3 - C \equiv CH > CH \equiv CH$

(3) $CH_2 = CH_2 > CH_3 - CH = CH_2 > CH_3 - C \equiv CH > CH \equiv CH$

$CH \equiv CH > CH_3 - C \equiv CH > CH_2 = CH_2 > CH_3 - CH_3$

138. Predict the correct intermediate and product in th following reaction

$$H_3C - C \equiv CH \xrightarrow[HgSO_4]{H_2O,\ H_2SO_4} \underset{(A)}{\text{intermediate}} \longrightarrow \underset{(B)}{\text{produc}}$$

(1) **A :** $H_3C - \overset{\overset{O}{\|}}{C} - CH_3$ **B :** $H_3C - C \equiv CH$

(2) **A :** $H_3C - \underset{\underset{OH}{|}}{C} = CH_2$ **B :** $H_3C - \overset{\overset{O}{\|}}{C} - CH_3$

(3) **A :** $H_3C - \underset{\underset{SO_4}{|}}{C} = CH_2$ **B :** $H_3C - \overset{\overset{O}{\|}}{C} - CH_3$

(4) **A :** $H_3C - \underset{\underset{OH}{|}}{C} = CH_2$ **B :** $H_3C - \underset{\underset{SO_4}{|}}{C} = CH_2$

139. It is because of inability of ns^2 electrons of the valence shell to participate in bonding that :

(1) Sn^{2+} and Pb^{2+} are both oxidising and reducing

(2) Sn^{4+} is reducing while Pb^{4+} is oxidising

(3) Sn^{2+} is reducing while Pb^{4+} is oxidising

(4) Sn^{2+} is oxidising while Pb^{4+} is reducing

140. Ionic mobility of which of the following alkali metal ions is lowest when aqueous solution of their salts are put under an electric field ?

(1) Rb

(2) Li

(3) Na

(4) K

Q.No.	Answer
1.	(4)
2.	(2)
3.	(1)
4.	(4)
5.	(4)
6.	(4)
7.	(3)
8.	(3,4)#
9.	(2)
10.	(1*)
11.	(3)
12.	(2)
13.	(2)
14.	(1)
15.	(4)
16.	(2)
17.	(2)
18.	(1)
19.	(4)
20.	(4)
21.	(2)
22.	(2)
23.	(4)
24.	(1)
25.	(4)
26.	(2)
27.	(3)
28.	(3)
29.	(1)
30.	(3)
31.	(1)
32.	(1)
33.	(1)
34.	(1)
35.	(1)
36.	(4)
37.	(4)
38.	(1)
39.	(3)
40.	(3)
41.	(1)
42.	(3)
43.	(4)
44.	(1)
45.	(1)

Q.No.	Answer
46.	(3)
47.	(4)
48.	(4)
49.	(1)
50.	(2)
51.	(2)
52.	(4)
53.	(4)
54.	(1)
55.	(1)
56.	(2)
57.	(4)
58.	(4)
59.	(4)
60.	(1)
61.	(3)
62.	(1)
63.	(3)
64.	(4)
65.	(4)
66.	(3)
67.	(3)
68.	(2)
69.	(4)
70.	(3)
71.	(3)
72.	(1)
73.	(3)
74.	(1)
75.	(4)
76.	(2)
77.	(1)
78.	(2)
79.	(1)
80.	(1)
81.	(2)
82.	(1)
83.	(2)
84.	(2)
85.	(1)
86.	(4)
87.	(4)
88.	(2)
89.	(1)
90.	(3

Q.No.	Answer
91.	(3)
92.	(3)
93.	(3)
94.	(3)
95.	(3)
96.	(3)
97.	(3)
98.	(2)
99.	(4)
100.	(4)
101.	(2)
102.	(1)
103.	(1)
104.	(2)
105.	(1)
106.	(4)
107.	(3)
108.	(1)
109.	(1)
110.	(1)
111.	(4)
112.	(4)
113.	(4)
114.	(1)
115.	(4)
116.	(1)
117.	(2)
118.	(1)
119.	(2)
120.	(1)
121.	(4)
122.	(3)
123.	(2)
124.	(3)
125.	(4)
126.	(1)
127.	(2)
128.	(3)
129.	(1)
130.	(2)
131.	(3)
132.	(1)
133.	(1)
134.	(1)
135.	(4)

Q.No.	Answer
136.	(4)
137.	(4)
138.	(2)
139.	(3)
140.	(2)
141.	(4)
142.	(2,3)#
143.	(4)
144.	(1)
145.	(2)
146.	(1)
147.	(3)
148.	(2)
149.	(4)
150.	(4)
151.	(2)
152.	(1)
153.	(4)
154.	(2)
155.	(2)
156.	(2)
157.	(1)
158.	(2)
159.	(4)
160.	(4)
161.	(4)
162.	(4)
163.	(4)
164.	(1)
165.	(4)
166.	(2)
167.	(3)
168.	(2)
169.	(3)
170.	(3)
171.	(4)
172.	(1)
173.	(4)
174.	(1)
175.	(1)
176.	(2)
177.	(1)
178.	(1)
179.	(2)
180.	(2)