

REGARDS: SOJLHA FATIMA

GRAND QUIZ SOLVED BT201

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1. Human genome project assembled the ----- billion bp of DNA. **3.12**
2. Large scale areas of similar vegetation and climatic characteristics are known as. **Biome**
3. A----- is a group of species that includes an ancestral species and all its descendants. **Clade**
4. One of the following is not the consequences of deforestation. **Decrease in the level of carbon dioxide in the atmosphere.**
5. Contribution of an individual's genotype to the next generation is known as ---. **Fitness**
6. Species richness is generally highest in ----latitudes and then decreases to the north and south with zero species in the arctic regions. **Tropical**
7. Dinoflagellates belong to -----, **Protozoans**
8. Features that have no apparent function are known as. **Vestigial structures**
9. The plant found in a particular area is -----, **Flora**
10. Saccharomics is the study of all the ----- in the cell. **Carbohydrates**
11. Larvae of echinoderms are -----, **Bilaterally symmetrical**
12. A ----- grouping consists of various species that lack a common ancestor. **Polyphyletic**
13. The complete and published genomes of plants by June 2005. **4**
14. The complete and published genomes of apicomplex by June 2005. **6**
15. The complete and published genome of Entamoeba by June 2005. **1**
16. The complete and published genomics of animals by June 2005. **16**
17. The complete and published genomes of bacteria by June 2005. **211**
18. The complete and published genomes in total by June 2005. **279**
19. A supportive rod that extends dorsally in the animals to the body cavity into the tail is called. **Notochord**
20. ----- is the ordered division and naming of organisms. **Taxonomy**

21. In some cases the primary structure of a gene product a protein may be the starting point of gene. **Discovery**
22. Family siboglinidae has ----- species. **111**
23. Which of the following are characteristics of prokaryotic cells. **Absence of nucleus**
24. The intermediate disturbance hypothesis suggests that communicates with a ----- may have greater species diversity than communicates with very frequent or very rare disturbances. **intermediate disturbance**
25. The international human genome project initiated by the US national institute of health launched in -----, **1990**
26. Who is not an invertebrate. **Amphibians**
27. Group of interacting and interbreeding organisms is known as. **Population**
28. The laborious ----- technique has now been replaced mostly by sequencing using mass spectrometry. **Edman degradation**
29. Evolutionary fitness is a measures of -----, **Reproductive fitness**
30. The number of organisms whose genome has been sequenced completely and published is now approaching.-----, **300**
31. Genome size of living organisms ranges across ----- orders of magnitude. **09**
32. Human have been evolved about ----- years ago. **5 million**
33. ----- is a foundation species that forms the basis of the kelp forest off the coast of California. **Brown algae**
34. The plants resulting from adding a gene are often reffered to as ----. **Transgenic**
35. How birds are designed to fly. **Three toes pointing forward and one toe pointing backward.**
36. Alligators fall under which of the following order. **Crocodylia**
37. Which one is an extinct group of arthropoda. **Trilobites**
38. ----- the entire community of plants and animals in a climate region. **BIOME**
39. A valid clade is ----- signifying that it consists of the ancestor species and all its descendents. **monophyletic**
40. The smallest units that can sustain life in isolation from all but atmosphere surroundings known as-----, **Ecosystem**

41. The study of ecology in the urban areas and the interactions between organisms is called ----- ecology. **Urban**
42. Which of the following system is found in echinoderms. **System of internal skeleton**
43. Phanerozoic consists of -----, **All of them**
44. Earliest dates to 200 million year ago are -----, **Turtles and tortoises**
45. ----- uses DNA and other molecular data to determines evolutionary relationships. **Molecular systematics**
46. Different individuals carry different genetics information the sum of the variation of an interbreeding population is called. **Gene pool**
47. The template nucleic acid used for translation is -----, **mRNA**
48. Which of the following structures in present in all the chordates. **Notochord**
49. Sequencing using mass spectrometry in which masses are estimated for ----- generated from proteolytic digests of the protein. **Peptides**
50. Genetic diversity means that the population contains most of the possible alleles for each particular. **Gene locus**
51. Habitat destruction is a major cause for-----, **Biodiversity loss**
52. RNA shows enzymic catalytic properties called -----, **Ribozymes**
53. How the birds are designed to fly ---, **Three toes pointing forward and one toe pointing backward.**
54. The kudzu plant was introduced to the ----- from Asia in the late 1800s as an ornamental plant. **America**
55. Gymnosperms have -----, **Naked seeds**
56. Large areas of protected land for conservation of biodiversity and the traditional life of the tribals living there are known as . **Biosphere reserves**
57. Class clitellata belongs to phylum. **Annelida**
58. Ticks belong to phylum-----, **Arthropoda**
59. leeches belong s to phylum. **Annelida**
60. Spider belongs to sub-phylum -----, **Chelicerata**
61. Ballooning occurs in -----, **Chalicerata**
62. Brittle star belongs to phylum-----, **Echinoderms**

63. One of the following option is not example of Ex-situ conservation of species.

Natural parks and natural reserves

64. Notochord is -----, **Flexible**

65. Arctic communities include just ----- species packed into each cubic meter. **Few**

66. The protease used in mass spectrometry is ----. **Trypsin**

67. The study of transcriptomes is part of ----- genomics. **Functional**

68. Trochophore larvae of annelids are remarkably similar to the -----, **Molluscs**

69. ----- element can jump into drosophila DNA for introduction of foreign DNA. **P**

70. In an individual organism is the state of possessing different alleles at a given locus in regard to a given character. **Heterozygosity**

71. The ---- is a function of both the number of different species in the community (species richness) and their relative abundances. **Species diversity**

72. Adult echinoderms are -----, **Radially symmetrical**

73. Some experts estimate that around 30% of all species on earth will be extinct by. **2050**

74. The puffer fish takifugu rubripes on eighth of the ----- genome. **Homo sapiens**

75. Australopithecus afarensis was first bipedal hominid found in east Africa about. **3.0-3.2 MYBP**

76. Zoologists who study birds are called -----, **Ornithologists**

77. Cyanobacteria introduces significant amount of ---- into atmosphere. **O₂**

78. Species of plants and animals found only in a particular area and not found anywhere else is. **Endemic**

79. By 2 billion years ago free oxygen was appearing in the atmosphere due to the activity of -----, **Photosynthetic bacteria**

80. Seeds which are not of agricultural importance yet hold importance these seeds are kept banks and are still maintained by some gardeners and farmers are known as . **heirloom**

81. Transcriptomics is the study of all the ----- that are present at any time in the cell. **RNA**

82. In which of the following animal sexual reproduction take place. **Earthworm**

83. The complete and published genome of mamalia by June 2005. **5**

84. The ----- synthesize glucose using solar or chemical energy which is broken down through respiration. **Autotrophs**
85. The complete and published genomes of insect by June 2005. **4**
86. Pharyngeal gill slits ----. **Are unique chordate characteristics**
87. In leeches salivary glands excrete ----- which prevents the blood from coagulating. **Hirudin**
88. ----- was probably the first hereditary molecules having the ability to copy itself. **RNA**
89. Breeding in annelid occurs in ----. **Spring**
90. Vertebrates make up only -----% of all animals species. **5**
91. Sea anemone has ----- body symmetry. **Radial**
92. The euchromatin parts of the genome in human genome project was not completed until mid. **2004**
93. The silver carp eats ----- a key food for many native fish species. **Plankton**
94. --- species are species that have been introduced into areas outside their native range and can cause or have caused harm in their new area. **Invasive**
95. Species richness is the number of different species in a particular. **Community**
96. Random range in gene frequency within a population is ----- . **Bottle neck effect**
97. On 26 June 2000 when US president ----- J, Craig of Celera Genomic and Francis Collins of the National Institute of Health announced that a working draft of the human genome had been completed. **B. Clinton**
98. Class Squamata has ----- . **Backbones of 100-400 vertebrates**
99. Class Polychaeta is the class of phylum. **Annelid**
100. ---- mutations are often lost from a population over subsequent generations. **Bad or lethal mutations**
101. Acritarchs are very likely the cysts of ----. **algae**
102. The complete and published genome of Cryptomonas by June 2005. **1**
103. Ecdysis is the characteristic of phylum. **Arthropoda**
104. The complete and published genome of nematode by June 2005. **2**
105. Sinorhizobium meliloti is a plant. **Bacteria**
106. Brittle star belongs to phylum. **Echinoderm**

107. The stages of parasitic protozoa that actively feed and multiply are frequently called. **Trophozoites**
108. Homo sapien are believed to have originated around how many years ago.
100,000-200,000
109. How many bones in the shoulders of birds to support each wing. **Three**
110. Which of the following is not available in animal cells. **Plastid**
111. In bioinformatics HMM stands for----. **Hidden markov models**
112. African sleeping sickness is caused by -----. **Trypanosoma.**
113. Phanerozoic consists of -----. **All of them**
114. In vitro early earth conditions were recreated by---. **Miller and Urey**
115. The ---- traditionally seen as a missing link between the arthropods and annelid. **Velvet worm**
116. Wormlike and algae fossils come from ----- million years old rock in China.
700-900
117. Crabs have ---- body symmetry. **Bilateral**
118. Centipedes belong to subphylum. **Myriapoda**
119. The complete and published genome of Bacillariophyta by June 2005. **1**
120. The complete and published genomes of Aves by June 2005. **1**
121. ----- result from gene duplication so are found in more than one copy in the genome. **Paralogous gene**
122. A taxonomic unit at any level of hierarchy is called a ----- . **Taxon**
123. The molecular clock ----- year ago the human-chimp line split. **~5**
124. Which is not a foundation species,. **Green algae**
125. Organelle that oxidizes amino acid, fatty acid and alcohols is known as .
Peroxisome
126. Cladistics method was developed by ----- . **Willi Hennig**
127. Humans are members of the order.----- **Primates**
128. In proterozoic era only ----- are recognized. **Bacteria**
129. Protochordates are divided into ----- . **Both A and B**
130. Adult echinoderms are ----- . **Radially symmetrical**

131. The more variation the better the chance that at least some of the individuals will have -----, **Allelic variant**
132. CRF stands for-----, **Conditional random field**
133. Invertebrates make up -----% of all animal species. **95**
134. Krill is the major food for -----, **Whales**
135. One of the following is not part of maintaining balance of ecosystem.
Protecting food crops
136. Nodes in gene tree relate either to speciation or gene duplication events.
Duplication
137. Black carp eat ----- limiting their availability for native fish and damaging shellfish populations. **Muscle**
138. The complete and published genome of archea by June 2005. **21**
139. According to the international union for conservation of nature IUCN globally how many species are threatened with extinction. **One third**
140. Haldane 1929 gave the -----, **Hot dilute soup theory**
141. Methanogens fall under the domain of -----, **Archea**
142. The proterozoic eon alone accounts for ---- of all geologic time. **42.5%**
143. Spiders belong to subphylum-----, **Chelicerata**
144. The two parts scientific name of a species is called a -----, **Binomial**
145. The spread of homo out of Africa is presumed to have taken place about homo erectus. **1.5 MYBP**
146. ----- may also be used to determine the amino acid sequence of a protein.
Mass spectrometry
147. Gregor Mendel's experiments with plant hybridization led to his establishing of -----, **Law of inheritance**
148. A----- grouping consists of an ancestral species and some but not all of the descendants. **Cladistics**
149. The odd creature known as kimberella has been found from the ----- of Russia. **Latest proterozoic**
150. Some species known as ----- has usually strong impacts on community structure preserving the balance of the community. **Keystone**

151. Notochord is replaced by -----, **Vertebral column**
152. Who is not a model organism. **Mouse**
153. The international human genome project initiated by US was completion due in. **2000**
154. Analogies are also known as -----, **Homoplasis**
155. Physical location of a gene is known as ----, **Locus**
156. Ecologist use to describe the composition of community are ----- and species diversity. **Species**
157. In the 18th centuy ----- published a system of taxonomy based on resemblances. **Carlous Linnaeus**
158. ----- assumes that the tree requires the fewest evolutionary events is the most likely. **Maximum likelihood**
159. Habitat destruction is a major cause for -----, **Biodiversity loss**
160. Assigning functions to genes and recognizing ----- sequences in a model genome can greatly benefit from comparison.
161. Populations of endangered species are small and tend to lose ----, **Genetic giversity**
162. The velvet worm is traditionally seen as a missing link the----, **Arthropod and annelid**
163. Arabidopsis employs the ----- photosynthetic pathway. **C3**
164. ----- theory states that groups of similar organisms are descended from a common ancestor. **Evolutionary**
165. The complete and published genome of oisces by June 2005. **03**
166. Two million people died in potato famine in -----, **Ireland**
167. The following are the major activitiesi of plant breeding. **Collection of variation,selection- evolution -release**
168. Antibiotic resistance gene rapidly spread within and between bacterial populations by transposons called . **R plasmids**
169. The complete and published genome of eukarya in total by june 2005. **111**
170. The locomotary organ of echimnoderms are called -----, **Tube feet**
171. Aves are ----- , **both A and B**