

30/ MARKS

BT201 Ecology, Biodiversity & Evolution-II

1 to 50 lessons for grand quiz

(in lieu of Midterm examination)

165 MCQs

1. The complete and published genomes of plant by June 2005 _____ **4**
2. The complete and published genomes of Apicomplex by June 2005 _____ **6**
3. The complete and published genomes of Entamoeba by June 2005 _____ **1**
4. The complete and published genomes of archaea by June 2005. _____ **47**
5. The complete and published genomes of animal by June 2005 _____ **16**
6. The complete and published genomes of bacteria by June 2005 _____ **211**
7. The complete and published genomes of aves by June 2005 _____ **1**
8. The complete and published genomes of bacillariophyta by June 2005 _____ **1**
9. The complete and published genomes of pisces by June 2005 _____ **03**
10. The complete and published genomes of mammalia by June 2005. _____ **5**
11. The complete and published genomes of nemaoda by June 2005. _____ **2**
12. The complete and published genomes of tunicata by June 2005. _____ **1**
13. The complete and published genomes of insecta by June 2005. _____ **4**
14. The complete and published genomes of eukarya in total by June 2005 _____ **47**
15. Saccharomics is the study of all the in the cell _____ **carbohydrates**
16.elements that can 'jump' into the DNA of drosophila for introduction of foreign DNA. _____ **p**
17. Species richness is generally highest in latitudes, and then decreases to the north and south, with zero species in the Arctic regions. _____ **tropical**
18. Brittle star belongs to which phylum _____ **Echinoderms**
19. Leeches belong to phylum _____ **Annelida**
20. A grouping consists of various species that lack a common ancestor _____ **polyphyletic**
21. A is a group of species that includes an ancestral species and all its descendants _____ **clade**
22. One of the following option is not an example of Ex situ conservation of species
_____ **natural parks and nature reserves**
23. the smallest units that can sustain life in isolation from all but atmospheric surroundings is known as _____ **Ecosystem**
24. Habitat destruction is a major cause for _____ **biodiversity loss**
25. Class Clitellata belongs to phylum. _____ **annelida**
26. The template nucleic acid used for translation is _____ **mRNA**
27. uses DNA and other molecular data to determine evolutionary relationships
_____ **Molecular systematics**
28. Adult Echinoderms are _____ **radially symmetry**
29. Australopithecus afarensis was first bipedal hominid found in east Africa about _____ **3.0-3.2 MYBP**
30. Phanerozoic consists of _____ **all of them**
31. In an individual organism, is the state of possessing different alleles at a given locus in regard to a given character? _____ **Heterozygosity**
32. The puffer fish, takifugu rubripes one-eighth of genome _____ **homo sapiens**
33. The kudzu plant was introduced to the..... from Asia in the late 1800s as an ornamental plant _____ **America**
34. Gymnosperms have _____ **naked seeds**
35. large areas of protected land for conservation of biodiversity and the traditional life of the tribals living there.
_____ **Biosphere reserves**

36. Earliest fossils dated to 200 million years ago are Turtles and tortoises
37. RNA shows enzymic (catalytic) properties called ----- Ribozymes
38. Genetic diversity, means that the population contains most of the possible alleles for each particular gene locus
39. Zoologist who study birds are called Ornithologist
40. Some expert's estimate that around 30% of all species on earth will be extinct by 2050
41. Different individuals carry different genetic information, The sum of the variation of an interbreeding population is called Gene pool
42. sequencing using mass spectrometry, in which masses are estimated for generated from proteolytic digests of the protein peptides
43. how the birds are designed to fly? Three toes pointing forward and one toe pointing backward.
44. Cynobacteria introduced significant amount of o2
45. Ticks belong to phylum Arthropoda
46. arctic communities include just aspecies packed into each cubic meter few
47. ballooning occur in Chelicerata
48. which of the following system is found in Echinoderms? system of internal skeleton
49. species are those species of plants and animals found only in a particular area and not found anywhere else. Endemic
50. Which of the following structure is present in all the chordates Notochord
51. The protease used in Mass spectrometry is Trypsin
52. the study of ecology in urban areas and the interactions between organisms is called ecology urban
53. One of the following is not the consequences of deforestation Decrease in the level of carbon dioxide in the atmosphere
54. Notochord is flexible
55. Spider belong to subphylum Chelicerata
56. human genome project the assembled thebillion bp of DNA, 3.12
57. theis a function of both the number of different species in the community (species richness) and their relative abundances Species diversity
58. dinoflagellate belong to Protozoans
59. larvae of Echinoderms are bilaterally symmetrical
60. contribution of an individual's genotype to the next generation Fitness
61. are the plants found in a particular area Flora
62. Large scale areas of similar vegetation and climatic characteristics are known as Biome
63. The study of transcriptomes is part ofgenomics functional
64. Trochophore larvae develop, which are remarkably similar to the Molluscs
65. Features that have no apparent function Vestigial Structures
66.is the ordered division and naming of organisms Taxonomy
67. Some species known as have unusually strong impacts on community structure, preserving the balance of the community or even making its existence possible keystone
68. Humans have been evolved about Year ago. 5 million
69. Seeds can be maintained for decades or even centuries if the conditions are controlled <5% humidity
70. Crabs have Body symmetry Bilateral
71. Breeding in annelids occurs in spring
72. may also be used to determine the amino acid sequence of a protein. Mass spectrometry
73. In bioinformatics HMM stand for Hidden Markov Models
74. The molecular clock says million years ago the human-chimp line split. ~ 5
75. Who is not an invertebrate? amphibians
76. property of a human society in which ecosystems (including humans) are managed such that the conditions supporting present day life on Earth can continue. Is known as Sustainability
77. The more variation, the better the chance that at least some of the individuals will have an that is suited for the new environment. allelic variant
78. Pharyngeal gill slits are unique chordate characteristic
79. Which of the following is a typical feature of prokaryotic cell Absence of nucleus

80. the silver carp, eats..., a key food for many native fish species _____ **plankton**
81. Evolutionary fitness is a measure of - _____ **Reproductive fitness**
82. The genome size of living organisms ranges across orders of magnitude, _____ **09**
83. The laborious ..technique has now been replaced mostly by sequencing using mass spectrometry _____ **edman degradation**
84. According to the International Union for Conservation of Nature (IUCN), globally aboutof all known species are threatened with extinction _____ **one third**
85. Which of the following are characteristics of prokaryotic cell _____ **all of the above**
86. sea squirt is a model and belongs to a group the _____ **Urochordata**
87. Oxidizes amino acids, fatty acids and alcohol known as _____ **Peroxisome**
88. the velvet worm, , traditionally seen as a missing link between the _____ **arthropods and annelids**
89. Loss of genetic diversity can imply lack of ...and premature extinction _____ **evolution**
90. is the evolutionary history of a species or group of related species _____ **Phylogeny**
91. The spread of Homo out of Africa is presumed to have taken place about ...by Homo erectus _____ **1.5 MYBP**
92. coral reefs which are biodiversity hotspots will disappear in _____ **20-40 years.**
93. 18th century,published a system of taxonomy based on resemblances _____ **Carolus Linnaeus**
94. Ancient order inhabit few small islands of new Zealand _____ **Rhynchocephalia**
95. Invertebrates Makes up of all Animal species _____ **95%**
96. The size of puffer fish,of the human genome _____ **one-eighth**
97. One of the following is not example of positive interaction among the microbes _____ **Amensalism**
98. Gregor Mendel's experiments with plant hybridization led to his establishing ____ **laws of inheritance**
99. Cockroach has Body symmetry _____ **bilateral**
100. arabidopsis employs the photosynthetic pathway. _____ **C3**
101. the stage of parasitic protozoa that actively feed and multiply are frequently called _____
102. A taxonomic method that uses a short genetic marker in an organism's DNA to identify it as belonging to a particular species _____ **Barcoding**
103. ecologists use to describe the composition of a community are species richness and ...diversity _____ **species**
104. which is not a foundation species _____ **green algae**
105. . Black carp eat...., limiting their availability for native fish and damaging shellfish populations _____ **mussels**
106. Haldane (1929): gave the _____ **"Hot, dilute soup" theory**
107. Genetic diversity is the variation at the level of _____ **both at individual genes, and In a population,**
108. carp illustrate the potential impact of invasive species _____ **Asian**
109. one of the following is the not part of maintaining balance of the ecosystem__ **protecting food crops**
110. levels of studying are _____ **Population Cell/Organism Organelle Molecule Atom**
111. .is a foundation species that forms the basis of the kelp forests off the coast of california. _____ **brown algae**
112. **intermediate disturbance hypothesis** suggests that communities with a ...may have greater species diversity than communities _____ **intermediate disturbance**
113. Humans are members of the order _____ **Primates**
114. Genetic modification of plants is achieved by adding a specific gene or genes to a plant, or by knocking down a gene with...., to produce a desirable phenotype. _____ **RNAi**
115. Class Polychaeta is the class of Phylum _____ **Annelida**
116. A valid clade is ---, signifying that it consists of the ancestor species and all its descendants. _____ **monophyletic**
117. Extra chromosomal self replicating circular DNA molecules present in bacteria are called; _____ **plasmid**
118. In leeches, salivary glands excrete _____ which prevents the blood from coagulating. _____ **hirudin**
119. mutations are often lost from a population over subsequent generations. _____ **Bad or lethal**
120. In which of the following animal sexual reproduction takes place? _____ **cockroach**
121. A taxonomic unit at any level of hierarchy is called a _____ **taxon**
122. Methanogens fall under the domain of; _____ **Archaea**

123. Sharp beak instead of teeth is characteristic of; _____ **Order Chelonia**
124. _____ 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**
125. Vestimentiferans belong to phylum _____ **Annelida**
126.assumes that the tree that requires the fewest evolutionary events (appearances of shared derived characters) is the most likely _____ **Maximum parsimony**
127. Krill is the major food for _____ **whales**
128. Ecologists use to describe the composition of a community are _____ richness and species diversity. _____ **species**
129. Trypanosoma is spread by _____ **tsetse fly**
130. On 26 June 2000, when US president _____, J. Craig venter of Celera genomics, and Francis Collins of the national institutes of health jointly announced that a working draft of the human genome had been completed. _____ **B. Clinton**
131. Sea anemone has _____ body symmetry. _____ **radial**
132. Who is not a model organism? _____ **hony bee**
133. ----- was probably the first hereditary molecule having the ability to copy itself. _____ **RNA**
134. Populations of endangered species are small and tend to lose; _____ **genetic diversity**
135. Group of interacting and interbreeding organisms is known as; _____ **population**
136. Systematists have proposed the-----, which recognizes only groups that include a common ancestor and all its descendents. _____ **phylocode**
137. Species richness is the number of different species in a particular _____ **community**
138. Assigning functions to genes and recognizing _____ sequences in a model genome can greatly benefit from comparison with a set of carefully chosen reference organisms at defined phylogenetic distances. _____ **promoter**
139. The following are the major activities of plant breeding One of following gives the correct sequence of events in Plant breeding ____ **Collection of variation. Selection Evaluation Release**
140. The., , traditionally seen as a missing link between the arthropods and annelids ____ **velvet worm**
141. Centipedes belong to subphylum _____ **myriapoda**
142. The international human genome project initiated by the US national institutes of health and the US department of energy, was launched in _____ - _____. **1990**
143. Which one is an extinct group of arthropoda? _____ **crustacea**
144. Acritarchs are very likely the cysts of; _____ **algae**
145. _____ theory states that groups of similar organisms are descended from a common ancestor _____ **Evolutionary**
146. Seeds which are not of agricultural importance yet hold traditional importance; these seeds are kept in seed banks and are still maintained by some gardeners and farmers are known as; _____ **Heirloom**
147. By june 2005, no fewer than prokaryotic organisms and 496 eukaryotes were the subject of ongoing genome sequencing projects. _____ **730**
148.and wildlife can be conserved by setting up areas like Biosphere reserves Wildlife sanctuaries, National parks, etc. _____ **Forest**
149. is the study of all low molecular weight cellular constituents. _____ **Metabolomics**
150. If for genetic modification genes of the species or of a crossable plant are used under control of their native promoter, then they are called _____ **cisgenic plants**
151. Aves are ---- _____ - , **both A and B**
152. The locomotary organ of echimnoderms are called ----- **Tube feet**
153. Antibiotic resistance gene rapidly spread within and between bacterial populations by transposons called . _____ **R plasmid**
154. Two million people died in potato famine in --- _____ **Ireland**
155. The international human genome project initiated by US was completion due in. _____ **2000**
156. The proterozoic eon alone accounts for ---- of all geologic time. _____ **42.5**
157. Haldane 1929 gave the ---- _____ **Hot dilute soup theory**
158. CRF stands for----- **Conditional random field**
159. Wormlike and algae fossils come from ----- million years old rock in china. _____ **700-900**

160. Homo sapien are believe to have originated around how many years ago. _____ **100,000-200,00**
161. Class squamata has -----Backbones of _____ **100-400 vertebrates**
162. The -----synthesize glucose using solar or chemical energy which is broken down through respiration.
_____ **Autotrophs**
163. By 2 billion years ago free oxygen was appearing in the atmosphere due to the activity of -----.
_____ **Photosynthetic bacteria**
- 164.

Best of luck