BT201 FINAL TERM MCQS

1. On Island and habitat patches on continents **Species richness increases with area and decreases with isolation**
2. Succession in the intertidal zone require **1 to 3 years**
3. Highest rate terrestrial primary production occur under **Warm and Moist Conditions**
4. _____ in physical and chemical conditions across aquatic and terrestrial environment can account for significant portion of the diversity among plank tonic algae and terrestrial plants **Heterogeneity**
5. The refuges that promote the persistence of hosts and prey include **Secure places to which the exploiter has limited access**
6. The environment Limits population growth by **Changing Birth and Death rates**
7. An environment in which resources are patchy also fosters **Clumped Distribution**
8. Eusociality is **More complex level of social behavior, which is considered to be the pinnacle of social evolution**
9. The most familiar relative measures of water content of air is **Relative humidity**
10. The rate at which organism can take in energy is ___ either by external or internal constraints **Limited**
11. The earth ecosystem interacting with physical environment as a whole maintained a steady state system intermediate in the flow of energy between the high energy input of the sun and thermal sink of space is called **Biosphere**
12. 1st multi-cellular organism found in China as carbonaceous filament were **1.8 Billion years**
13. Multicellular algae appear as carbonaceous filament from _____ old rock of china **1.8 Billion years**
14. Human is in which order **Primate**
15. Maximum parsimony assumes that the _____ (appearances of shared derived characters) is the most likely the **Tree that requires the fewest evolutionaryevents**
16. Oparin in 1924 gives **Primeval soup theory**
17. In 18th Century, Carolus Linnaeus published a system of taxonomyon resemblance **Two-part names of species and hierarchical classification**
18. One of the following is not example of horizontal gene transfer **Conjunction**
19. Which one of the following is not one of the positive interactions on microbe _____ **Amensalism**
20. Not Positive interaction **Competition**
21. _____ type of natural selection which favors more than two extreme phenotypes is **Disruptive selection**

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22. Which one of the following is not one of the advantages of in situ conservation_____**The Species have less space**

23. The advantage of in-situ conservation except_____**The specie will not evolve in their environment.**

24. Which of the following is not common extension of omics_____**Vaccinomics**

25. Vertebrates make_____% of total animals **5%**

26. Gymnosperms means_____**Naked seeds**

27. Protozoa reproduce except_____**Parthenogenesis**

28. Number of alleles in a sample population is called_____**Allelic richness**

29. One of the first questions that is asked when a species is considered for whole-genome sequencing is **What is the size of its genome?**

30. Modern bread wheat is a mixture of recombined genes from_____different wild species **3Three**

31. Quinine is a drug used to treat_____**Malaria**

32. Annelids are not_____**Predator**

33. Specie differ from foundation species is that they are likely to belong to_____**higher trophic levels**

34. The_____technique has now been replaced by sequencing using a mass spectrometry_____ **laborious edman degradation**

35. The first genome sequenced completely was that of_____**Homophilus influenza**

36. To assemble a genome from a series of sequences requires tremendous_____**Computational Power**

37. Community structure is measured by_____**Species richness and diversity**

38. A resilient community or ecosystem may be_____disrupted by disturbance but quickly return to former state_____**Completely**

39. The ability to bounce back after disturbance is called_____**Resilience**

40. _____demonstrated that the influence of consumers on community structure depends upon their feeding preferences, their local population density, and the relative competitive abilities of prey species **Jane lubchenko**

41. Notochord is present throughout life or at least during embryonic stages in_____**Chordates**

42. The field of biology specially in developing hardware and software to store and analyze the huge amount of data generated by life science is called_____**Bioinformatics**

43. Possibility of working with molecules on the scale of few micrometers is_____**Micro technology**

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44. Phylogenetic Trees are evaluated in order to find the relationship among_____**Species, Phylum, Family, (All of given)**

45. Field experiment has_____points **4 Four**

46. There are so-called_____that may be used to identify ecological important genes in incompletely characterized genome **Pre-genomic molecular approaches**

47. _____are using these new tools to study large scale dynamic ecological phenomenon such as interannual variation_____**Ecologists**

48. The local population is density of the Glanville Fritillary_____Melitaeacinxia, is lower on larger and on isolated habitat patches_____**Butterfly**

49. _____cells are combination of proteins synthesizing system**Eukaryotic**

50. Sonoran desert plant distribution map clearly on the soils of different ages and form a _____ mosaic that closely matches soil mosaic **Vegetative**

51. _____ occur on nearly exposed geological substrate not significantly modified by organism **Primary Succession**

52. Supporting evidence for endosymbiosis except_____Comes from studies of living**prokaryotic cells**

53._____can be used to detect long-term ecological changes_____**Repeat Photography**

54. Who worked on the developing of paleontology **Smith, Buckland, Cuvier, Brongniart**

55. A food_____summarizes the feeding relation in a community **Web**

56. _____proposed the feeding activities of few species have inordinate influence on community structure_____**Robert Paine**

57. Hardy-Weinberg principle conditions necessary to maintain constant alleles frequencies in a population except_____**Immigration**

58. _____independently expanded the logistic model of population growth to represent interspecific competition **Lotka and Volterra**

59. _____explored the extent and sources of morphological variation in plant population including both the influence of environment and genetics **Clausen, Keck, and Hiesey**

60. The validity of field experiments depend upon several design features except_____**Knowledge of final conditions**

61. Populations include_____variations among individuals which are significant aspect of population structure **Genetic and Phenotypic effects**

62. _____soon found that even these so-called simple communities included very complex feeding relations **Charles Elton (1927)**

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63. 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_____plants **Cisgenic**

64. A philosophical concept of value of something independent of its value to anything else is called_____**Intrinsic Value**

65. Mass spectroscopy is replaced by_____**Edman degradation**

66. Which of the following is an example of negative interaction_____**Amensalism**

67. The Nobel Prize winning scientist Linus Pauling Aptly described science as the_____**Search for Truth**

68. Study of transcripts that are present in an organism any time is called_____**Transcriptomics**

69. Mass spectrometry is used to determine the sequence of_____**Amino acids**

70. Which of the following is not part of human genome project_____**US department of medicine**

71. Comparative genomics is developing an increasing array of bioinformatics techniques. Which of the following is not done_____**Synteny foot printing**

72. The bark of this tropical tree contains a drug called quinine is used in the prevention of_____ **Malaria**

73. Phylogenetic tree are evaluated in order to find the relationship among_____**Species, Phylum, Family, (All of given)**

74. What is not true about Protein degradation_____**Sequencing using mass spectrometry is replaced by admen degradation**

75. Medicines from nature account for usage by_____of the world's population_____**80%**

76. Habitat Destruction is major cause for_____**Loss of Biodiversity**

77. Coral reefs which are biodiversity hotspots will disappear in_____year**20-40**

78. Plant founded in particular area is_____**Flora**

79. Gregormendel's Experiments with plant hybridization led to his establishing_____**Laws of inheritance**

80. Genetic modification of plants is achieved by adding a specific gene or genes to a plant, or by knocking down a gene with_____**RNAI**

81. The following are major activities of plant breeding; one of the following is the correct sequence of plant breeding_____**Collection of variation-selection-evaluation-release(CSER)**

82. One of the following is the is not the correct sequence of deforestation_____**Decrease in the level of carbon dioxide in the atmosphere**

83. One of the following is NOT the part of maintaining balance of the ecosystem _____**Protection of food crops**

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84. In Genome evolution Gene number & complexity of an organism_____**are not strongly linked**

85. Gene diversity is the variation at the level of____**both at individual gene and in a population**

86. Haldane (1929) gave the_____**Hot, dilute soup Theory**

87. Not an example of Ex-situ Conservation_____**Natural park and Natural Reserves**

88. One of the following a population over subsequent generations_____**Bad or lethal mutations**

89. The fossil record is relatively incomplete for several reasons, which one is not true statement_____**Soft tissues are mostly preserved**

90. Evolutionary fitness is a measure of_____**Reproductive fitness**

91. _____uses DNA and other molecular data to determine evolutionary relationships **Molecular systematic**

92. -Plant complete when_____nutrients are less .**More Intensively**

93. The process of synthesis of protein is called_____**Translation**

94. Conjugation is a process of_____**Sexual reproduction**

95. Animal eat other animals are called **Predators**

96. _____Group have common ancestor. **Clade**

BT201- ECOLOGY, BIODIVERSITY, EVOLUTION II

PAST-MCQS

1. Humans are included in the order ____**PRIMATES.**

2. The field of biology specializing in storing and analyzing data_____**BIOINFORMATICS**

3. The possibility of working with molecules on the scale of few micrometers is called. ____**MICRO ECOLOGY**.

4. First question asked when a species is bought for genome sequencing____**WHAT IS THE SIZE OF ITS GENOME?**

5. The study of transcripts that are present at any time in the cell are called ____**TRANSCRIPTOMICS**

6. Important measures used to describe community composition are____**SPECIES RICHNESS AND SPECIESDIVERSITY**

7. Vertebrates makes_____%of the animals.____**5%**

8. The number of allele in a sample_____**ALLELIC RICHNESS**

9. Mass spectrometry used to determine____sequence**AMINO ACID SEQUENCE OF A PROTEIN**

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10. Oparin (1924): work____**"PRIMEVAL SOUP" THEORY**

11. Quinine is obtained from quina it is used to treat____**MALARIA**

12. The common extension of genomics are except____**VACCINOMICS**

13. To assemble a genome from a series of sequence fragments requires tremendous ____**COMPUTATIONAL POWER**

14. The first genome sequenced completely was that of____**HEMOFELUES INFLUENZA**

15. The___technique has now been replaced mostly by sequencing using mass spectrometry. **EDMAN DEGRADATION**

16. Annelids do not have feeding style____**FILTER FEEDERS**

17. Modern bread wheat is a mixture of recombined genes from **3**

18. Gymnosperms means_____**NAKED SEEDS**

19. Medicines from nature account for usage by____of the world population.____**80%**

20. Habitat destruction is the major cause_____**BIODIVERSITY LOSS**

21. Coral reefs which are biodiversity hotspots will disappear in____**20 TO 40 YEARS**

22. Plants found in a particular area is_____**FLORA**

23. Gregor Mendel experiments with plant hybridization led to this establishing of_____**LAWS OF INHERITANCE**

24. Genetic modification of plant 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**

25. They possess notochord in any period of their life_____**CHORDATA**

26. One of the following is not the consequences of deforestation _____**DECREASE IN THE LEVEL OF CARBON DIOXIDE IN THE ATMOSPHERE**

27. 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_____Plants_____**CISGENIC**

28. The following are the major activities of plant breeding. One of the following Gives the correct sequence of events in plant breeding_____**COLLOECTION OF VARIATION- SELECTION - EVALUATION –RELEASE**

29. One of the following is the NOT part of maintaining balance of the ecosystem_____**PROTECTING FOOD CROPS**

30. Which is not related to endosymbiosis **PROKARYOTIC CELL STUDY**

31. Which is not the part of horizontal gene transfer_____Conjugation • Transformation • Transduction **(OTHER THAN THIS)**

32. which One is not related to protozoa reproduction_____**PARTHENOGENESIS**

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33. Taxonomy was established by_____**CAROLUS LINNAEUS**

34. Linus Pauling called science a way to find Truth or logic. select the correct one_____**TRUTH**

35. ___Assumes that the tree that requires the fewest evolutionary events (appearances of shared derived characters) is the most likely_____**MAXIMUM PARISMONY**

36. Annelids are not_____**PREDATORS.**

37. The field of biology specializing in developing hardware and software to store and analyze the huge amount of data being generated by life scientists._____**BIOINFORMATICS**

38. There are some so called_____to identify ecologically genes in incompletely genome.___**PRE-GENOMIC MOLECULAR APPROACHES).**

39. The international human genome project initiated by except.
    a) US national institutes of health
    b) US department of energy,
    c) Celera genomics ,
    d) US NATIONAL INSTITUTES OF GENETICS

40. Comparative genomics is developing an increasing array of bioinformatics techniques except.
    a) Synteny analysis
    b) Phylogenetic foot printing
    c) Phylogenetic shadow,
    d) SYNTENY SHADOW

41. Keystone species differ from foundation specie, higher trophic level, and top predator; tend to modify their environment, **ALL GIVEN ABOVE**.

42. Eukarya have been evolved form since_____million years ago._____**TWO (NOT CONFIRMED)**

43. Group consisting various species that lack a common ancestor called ,_____**NONE**

44. type of selection which favor more than two extreme phenotype is_____**(DISRUPTIVE SELECTION)**

45. Which of the following is not mode of feeding of annelids_____**PREDATOR**

46. A philosophical concept of value of something independent of its value to anything else called___**(INTRINSIC VALU AND HERITBLE**

47. Krill Is a major food for_____**WHALES**

48. Most important measures ecologists use to describe composition of community are____**SPECIES RICHNESS AND SPECIES DIVERSITY**

49. Major technological developments of 1990s. , Computing, Communication , Micro technology , **ALL OF THE ABOVE**

50. ____are found in more than one copy in the genome._____**PARALOGOUS GENES**

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