

Grade 12 Biozoology Achievement Test -2

1. Haemophilia is more common in males because it is a a) Recessive character carried by Y-chromosome b) Dominant character carried by Y-chromosome c) Dominant trait carried by X-chromosome d) Recessive trait carried by X-chromosome
2. ABO blood group in man is controlled by a) Multiple alleles b) Lethal genes c) Sex linked genes d) Y-linked genes
3. Three children of a family have blood groups A, AB and B. What could be the genotypes of their parents? a) IA IB and Io Io c) IB IB and IA IA b) IA Io and IB Io d) IA IA and Io Io
4. Which of the following is not correct? a) Three or more alleles of a trait in the population are called multiple alleles. b) A normal gene undergoes mutations to form many alleles. c) Multiple alleles map at different loci of a chromosome. d) A diploid organism has only two alleles out of many in the population.
5. Which of the following phenotypes in the progeny are possible from the parental combination AxB? a) A and B only b) A,B and AB only c) AB only d) A,B,AB and O
6. A marriage between a colourblind man and a normal woman produces a) All carrier daughters and normal sons b) 50% carrier daughters and 50% normal daughters c) 50% colourblind sons and 50% normal sons d) All carrier offsprings
7. Down's syndrome is a genetic disorder which is caused by the presence of an extra chromosome number a) 20 b) 21 c) 4 d) 23
8. Klinefelters' syndrome is characterized by a karyotype of a) XYY b) XO c) XXX d) XXY
9. Females with Turner's syndrome have a) Small uterus b) Rudimentary ovaries c) Underdeveloped breasts d) All of these
10. Patau's syndrome is also referred to as a) 13-Trisomy b) 18-Trisomy c) 21-Trisomy d) None of these
11. "Universal Donor" and "Universal Recipients" blood group are _____ and _____ respectively a) AB, O b) O, AB c) A, B d) B, A
12. ZW-ZZ system of sex determination occurs in a) Fishes b) Reptiles c) Birds d) All of these
13. Co-dominant blood group is a) A b) AB c) B d) O Principles of Inheritance and Variation
14. Which of the following is incorrect regarding ZW-ZZ type of sex determination? a) It occurs in birds and some reptiles b) Females are homogametic and males are heterogametic c) Males produce one type of gamete d) It occurs in gypsy moth
15. Right to Clean Water is a fundamental right, under the Indian Constitution a) Article 12 b) Article 21 c) Article 31 d) Article 41
16. The 'thickness' of Stratospheric Ozone layer is measured in/on: a) Sieverts units b) Dobson units c) Melson units d) Beaufort Scale
17. As per 2017 statistics, the highest per capita emitter of Carbon dioxide in the world is a) USA b) China c) Qatar d) Saudi Arabia
18. The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as a) Biomagnification b) Bioremediation c) Biomethanation d) Bioreduction
19. Which among the following always decreases in a Food chain across tropic levels? a) Number c) Energy b) Accumulated chemicals d) Force
20. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant? a) Copper c) Palladium b) Silver d) Gold
21. _____ is/are an ideal disinfectant for waste water. a) U-V Rays c) Boiling b) Chlorination d) Ozonisation
22. SMOG is derived from : a) Smoke b) Fog c) Both A and B d) Only A
23. Excess of fluoride in drinking water causes: a) Lung disease b) Intestinal infection c) Fluorosis d) None of the above
24. The first clinical gene therapy was done for the treatment of a) AIDS b) Cancer c) Cystic fibrosis d) SCID
25. Dolly, the sheep was obtained by a technique known as a) Cloning by gene transfer b) Cloning without the help of gametes c) Cloning by tissue culture of somatic cells d) Cloning by nuclear transfer
26. The genetic defect adenosine deaminase deficiency may be cured permanently by a) Enzyme replacement therapy b) Periodic infusion of genetically engineered lymphocytes having ADA cDNA c) Administering adenosine deaminase activators d) Introducing bone marrow cells producing ADA into embryo at an early stage of development

27. How many amino acids are arranged in the two chains of Insulin? a) Chain A has 12 and Chain B has 13 amino acids b) Chain A has 21 and Chain B has 30 amino acids c) Chain A has 20 and chain B has 30 amino acids d) Chain A has 12 and chain B has 20 amino acids.
28. PCR proceeds in three distinct steps governed by temperature, they are in order of a) Denaturation, Annealing, Synthesis b) Synthesis, Annealing, Denaturation c) Annealing, Synthesis, Denaturation d) Denaturation, Synthesis, Annealing
29. Which one of the following statements is true regarding DNA polymerase used in PCR? a) It is used to ligate introduced DNA in recipient cells b) It serves as a selectable marker c) It is isolated from a Virus d) It remains active at a high temperature
30. ELISA is mainly used for a) Detection of mutations b) Detection of pathogens c) Selecting animals having desired traits d) Selecting plants having desired traits
31. Transgenic animals are those which have a) Foreign DNA in some of their cells b) Foreign DNA in all their cells c) Foreign RNA in some of their cells d) Foreign RNA in all their cells
32. Vaccines that use components of a pathogenic organism rather than the whole organism are called a) Subunit recombinant vaccines b) attenuated recombinant vaccines c) DNA vaccines d) conventional vaccines
33. Which of the following region has maximum biodiversity a) Taiga b) Tropical forest c) Temperate rain forest d) Mangroves
34. Conservation of biodiversity within their natural habitat is a) In situ conservation b) Ex situ conservation c) In vivo conservation d) In vitro conservation
35. Which one of the following is not coming under in situ conservation a) Sanctuaries b) Natural parks c) Zoological park d) Biosphere reserve Biodiversity and its Conservation
36. Which of the following is considered a hotspots of biodiversity in India a) Western ghats b) Indo-gangetic plain c) Eastern Himalayas d) A and C
37. The organization which published the red list of species is a) WWF b) IUCN c) ZSI d) UNEP
38. Who introduced the term biodiversity? a) Edward Wilson b) Walter Rosen c) Norman Myers d) Alice Norman
39. Which of the following forests is known as the lungs of the planet earth? a) Tundra forest b) Rain forest of north east India c) Taiga forest d) Amazon rain forest
40. Which one of the following are at high risk extinction due to habitat destruction a) Mammals b) Birds c) Amphibians d) Echinoderms
41. Assertion: The Environmental conditions of the tropics are favourable for speciation and diversity of organisms. Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.
42. The movement of organism in response to light, either towards the source of light a) phototropism b) phototaxis c) photokinesis d) photoblastic
43. The scientific study of animal behaviour, under natural conditions is called ____ a) Ethology b) Ecology c) ecotechnology d) isolation
44. The recombinant vaccine for hepatitis B (HbsAg) was the first synthetic vaccine launched in 1997 which was marketed by trade names a) Humulin b) Recombivax c) Energix d) both a and b
45. A genetically engineered organism that carries one or more genes in its chromosomes that have been made inoperative is called a) gene knock in b) gene knock down c) gene knock out d) gene silencing
46. The inhibiting effect of oxygen on fermentation process is called ____ a) Rutherford b) Darwinian c) Lamarckism d) Pasteur
47. The cell surface antigens that induce an immune response leading to rejection of allografts is _ a) Autograft b) anemograft c) allelograft d) histocompatibility
48. The causative agent for mild tertian malaria is ____ a) P. falciparum b) P. ovale c) P. malariae d) P. vivax
49. The term biogenesis was coined by __ a) Henry Bastian b) Thomas Huxley c) Seawall wright d) Urey
50. Hugo de Vries believed that speciation are due to Mutation and called as __ a) Neo-Darwinism b) Neolamarckism c) Pasteur effect d) Saltation .