

National Testing Agency

Question Paper Name: Environmental biology Genetic and Evolution
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Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

Environmental biology Genetic and Evolution

Group Number : 1
Group Id : 41652972
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 100

Environmental biology Genetic and Evolution

Section Id : 41652972
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 100
Number of Questions to be attempted: 100
Section Marks: 100
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 41652973
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 4165295866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 'Father of Ecosystem Ecology' is:

- John Miller
- R. Margalef
- E. P. Odum
- E. D. Schulze

Question Number : 2 Question Id : 4165295867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 'Father of Indian Ecology' is:

- a. Prof. Ramdeo Mishra
- b. Robert Koch
- c. Louis Pasteur
- d. E. P. Odum

**Question Number : 3 Question Id : 4165295868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

The term 'Ecosystem' was coined by:

- a. Alexander Fleming
- b. A. G. Tansley
- c. George Mendel
- d. E. D. Schulze

**Question Number : 4 Question Id : 4165295869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

In any ecosystem, form of energy that cannot be recycled is:

- a. Light energy
- b. Chemical energy
- c. Heat energy
- d. Electrical energy

**Question Number : 5 Question Id : 4165295870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

Living organisms cannot use:

- a. Light energy
- b. Chemical energy
- c. Heat energy
- d. Potential energy

**Question Number : 6 Question Id : 4165295871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

Balance between producers and consumers forms the:

- a. Food web
- b. Food chain
- c. Food cycle
- d. Food resource

**Question Number : 7 Question Id : 4165295872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

The part played by humans in food chains is that of:

- a. Producers
- b. Consumers
- c. Humans are not part of food chains
- d. Decomposer

**Question Number : 8 Question Id : 4165295873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

An example of a consumer eating another consumer is:

- a. A rabbit eating grass
- b. A hedgehog eating a spider
- c. A squirrel eating nuts
- d. A hen eating seeds

Question Number : 9 Question Id : 4165295874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A producer uses energy from the Sun to make food. Which of these is NOT a producer?

- a. Grasses
- b. An oak tree
- c. A mosquito
- d. A worm

Question Number : 10 Question Id : 4165295875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term ecology refers to the study of:

- a. Interrelationships of living organisms with their physical and biological environment.
- b. Study of biotic factors
- c. Study of abiotic factors
- d. Study of interaction of detritivores

Question Number : 11 Question Id : 4165295876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is NOT a Climatic factor?

- a. Temperature
- b. Light
- c. Soil texture
- d. Plant growth

Question Number : 12 Question Id : 4165295877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most of the solar radiations are absorbed by the:

- a. Lithosphere
- b. Hydrosphere
- c. Atmosphere
- d. Stratosphere

Question Number : 13 Question Id : 4165295878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Association between sea anemone (*Adamsia*) and hermit crab (*Eupagurus*) is an example of:

- a. Mutualism
- b. Protocooperation
- c. Parasitism
- d. Amensalism

Question Number : 14 Question Id : 4165295879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Seed dispersal and pollination are examples of:

- a. Mutualism
- b. Commensalism
- c. Predation
- d. Amensalism

Question Number : 15 Question Id : 4165295880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Penicillium shows inhibition of growth of bacterium Staphylococcus. This type of relationship is called:

- a. Commensalism
- b. Predation
- c. Amensalism
- d. Mutualism

Question Number : 16 Question Id : 4165295881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Function of photosynthesis is taken up by green shoots in:

- a. Hydrophytes
- b. Xerophytes
- c. Herbaceous
- d. Detritivores

Question Number : 17 Question Id : 4165295882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In order to reduce water loss, plants may:

- a. Shed leaves
- b. Depend on peripheral layer of root
- c. Show cell division in shoot apex
- d. Grow faster

Question Number : 18 Question Id : 4165295883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Avicennia is an example of:

- a. Hydrophytes
- b. Xerophytes
- c. Halophytes
- d. Saprophytes

Question Number : 19 Question Id : 4165295884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sharks are great swimmers because they have adapted _____ to help them swim.

- a. Teeth
- b. Fins
- c. Gills
- d. Tail

Question Number : 20 Question Id : 4165295885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ability of an animal to fit into its surroundings is called:

- a. Symmetry
- b. Exoskeleton
- c. Camouflage
- d. Length

Question Number : 21 Question Id : 4165295886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bears are able to survive winter months because they:

- a. Hibernate
- b. Fish
- c. Hunt
- d. Work

Question Number : 22 Question Id : 4165295887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A 'soil horizon' is:

- a. A factor influencing how soil is formed
- b. A layer of soil
- c. An organism found within the soil
- d. Soil components

Question Number : 23 Question Id : 4165295888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The three layers which form the soil profile are:

- a. Air, water & soil
- b. Minerals, organic matter & living organisms
- c. Topsoil, subsoil & parent material
- d. None of the options

Question Number : 24 Question Id : 4165295889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A 'sandy' soil feels _____ when touched.

- a. Sticky
- b. Gritty
- c. Smooth
- d. Soft

Question Number : 25 Question Id : 4165295890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Organic matter (humus) is an important part of soil because:

- a. It helps to improve water infiltration
- b. It converts nitrogen in the air into nitrates used by plants
- c. It is rich in nutrients, which are important for fertility
- d. None of the options

Question Number : 26 Question Id : 4165295891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a common reason why soil maps are used?

- a. To determine the land drainage capabilities of an area
- b. To determine the suitability of soils for particular crops
- c. To record how soils are used by people
- d. All of the options

Question Number : 27 Question Id : 4165295892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a threat commonly faced by soils?

- a. Soil erosion
- b. Percolation
- c. Climate change
- d. Global warming

Question Number : 28 Question Id : 4165295893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The individual transitional communities are known as:

- a. Seral stages
- b. Formal stages
- c. Rural stages
- d. All of the options

Question Number : 29 Question Id : 4165295894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following communities show very little diversity and takes the maximum time to alter the environment by which the environment becomes fit for the next community?

- a. Pioneer community
- b. Transitional communities
- c. Climax community
- d. None of the options

Question Number : 30 Question Id : 4165295895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the ecological succession starts on the terrestrial habitat for example a bare rock or land, the seral stages are known as:

- a. Myxoseres
- b. Xeroseres
- c. Hydroseres
- d. All of the options

Question Number : 31 Question Id : 4165295896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The wavelength band of UV - B radiation is:

- a. 280 - 315 nm
- b. 315 - 400 nm
- c. 200 - 280 nm
- d. 220 - 440 nm

Question Number : 32 Question Id : 4165295897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

UV lamps used for sterilization purpose emit:

- a. UV - A
- b. UV - C
- c. UV - B
- d. All of the options

Question Number : 33 Question Id : 4165295898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Depletion of ozone was first observed over:

- a. Arctic
- b. Equator
- c. Antarctic
- d. None of the options

Question Number : 34 Question Id : 4165295899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which gas is not a greenhouse gas?

- a. Methane
- b. Ozone
- c. Oxygen
- d. Hydrogen

Question Number : 35 Question Id : 4165295900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Heat rays are emitted as:

- a. Red colored rays
- b. Infra- red rays
- c. Ultra Violet rays
- d. Far- red rays

Question Number : 36 Question Id : 4165295901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In nature highest amount of carbon is present in:

- a. Ocean
- b. Atmosphere
- c. Land
- d. All of the options

Question Number : 37 Question Id : 4165295902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plants need bacteria to incorporate _____ into organic compounds.

- a. Oxygen
- b. Carbon
- c. Nitrogen
- d. Hydrogen

Question Number : 38 Question Id : 4165295903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Nitrogen that is used by plants is in the form of:

- a. Nitrogen monoxide
- b. Nitrates
- c. Oxygen
- d. Hydrogen

Question Number : 39 Question Id : 4165295904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

With the nitrogen they absorb, plants:

- a. Kill other plants
- b. Use it in photosynthesis
- c. Build proteins
- d. All of the options

Question Number : 40 Question Id : 4165295905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In carbon cycle, flow of energy is:

- a. Linear
- b. Cyclical
- c. Reversible
- d. Irreversible

Question Number : 41 Question Id : 4165295906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Coal, natural gas and oil are forms of:

- a. Fossil fuels
- b. Carbon compounds
- c. Both A and B
- d. None of the options of the options

Question Number : 42 Question Id : 4165295907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

During respiration, carbon dioxide (CO_2) is:

- a. Produced
- b. Released to environment
- c. Absorbed
- d. Assimilated

Question Number : 43 Question Id : 4165295908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The amino acid which has sulphur is

- a. Glycine
- b. Tryptophan
- c. Methionine
- d. Alanine

Question Number : 44 Question Id : 4165295909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sulphur dioxide in the gaseous form brings sulphur to the earth through:

- a. Mineralization
- b. Acid rain
- c. Photosynthesis
- d. Respiration

Question Number : 45 Question Id : 4165295910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The black colour of the marine sediments is due to:

- a. Ferrous sulphide
- b. Calcium sulphate
- c. Hydrogen sulphide
- d. Sodium hydroxide

Question Number : 46 Question Id : 4165295911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plants can take up phosphate in the form of:

- a. Organic phosphate
- b. Soluble phosphate
- c. Mineral phosphate
- d. Orthophosphate

Question Number : 47 Question Id : 4165295912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Severe deficiency of phosphorus in animals causes problem in:

- a. Muscles
- b. Skeleton
- c. Respiration
- d. Sleep

Question Number : 48 Question Id : 4165295913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Inorganic phosphorus is released in the soil from the minerals by acids exuded from:

- a. Microorganisms
- b. Plant roots
- c. Microorganisms and plant roots
- d. None of the options

Question Number : 49 Question Id : 4165295914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A fern commonly inoculated to paddy fields is:

- a. Azolla
- b. Marsilea
- c. Anabaena
- d. Nostoc

Question Number : 50 Question Id : 4165295915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A free living nitrogen fixing bacterium is:

- a. Clostridium
- b. Anabaena
- c. Rhizobium
- d. Azolla

Question Number : 51 Question Id : 4165295916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Azolla is used as biofertilizer because i:

- a. Multiplies very fast to produce massive biomass
- b. Has association of nitrogen fixing Rhizobium
- c. Has association of nitrogen fixing cyanobacteria
- d. All of the options

Question Number : 52 Question Id : 4165295917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Biopesticides have advantage over chemical pesticides because

- a. They are cheaper
- b. Non Pollutant
- c. Cheaper & non-pollutant
- d. None of the options

Question Number : 53 Question Id : 4165295918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is used as biological insecticide.

- a. Silk moth
- b. Tiger beetle
- c. Caterpillar
- d. Worms

Question Number : 54 Question Id : 4165295919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bacillus thuringiensis (Bt) strains have been used for designing novel:

- a. Biofertilizer
- b. Bio-mineralization processes
- c. Bio-insecticidal plants
- d. None of the options

Question Number : 55 Question Id : 4165295920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The two primary pollutants from vehicles, which react in the presence of sunlight to form two secondary pollutants - peroxyacyl nitrate (PAN) and ozone - are:

- a. Nitrogen oxides and hydrocarbons
- b. Carbon dioxide and carbon monoxide
- c. Sulphur oxides and particulates
- d. None of the options of the options

Question Number : 56 Question Id : 4165295921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Automobiles are the type of:

- a. Point sources
- b. Line or mobile sources
- c. Area sources
- d. Direct sources

Question Number : 57 Question Id : 4165295922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ are responsible for acid rain.

- a. Oxides of Sulphur
- b. Oxides of Carbon
- c. Hydrocarbons
- d. All of the options

Question Number : 58 Question Id : 4165295923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term for a normally occurring variation of the same gene (e.g., brown and blue eye color) is:

- a. Genotype
- b. Allele
- c. Locus
- d. Phenotype

Question Number : 59 Question Id : 4165295924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An individual who possesses two different alleles for a particular gene is referred to as:

- a. Heterozygous
- b. Homozygous
- c. Polygenic
- d. Heterologous

Question Number : 60 Question Id : 4165295925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An individual with the genotype XXY would have _____ chromosomes and phenotypically would be a

-
- a. 46; male
 - b. 47; male
 - c. 47; female
 - d. None of the options

Question Number : 61 Question Id : 4165295926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

----- is the masking of one gene's phenotype by another.

- a. Epistasis
- b. Mutation
- c. Pleiotropy
- d. Ploidy

Question Number : 62 Question Id : 4165295927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A gene present at 1% or greater in the population is:

- a. Mutation
- b. Wild-type
- c. Recessive
- d. Polymorphism

Question Number : 63 Question Id : 4165295928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A new phenotype not seen in the parents can arise by:

- a. Gene interaction
- b. Complementation
- c. Both
- d. None of the options

Question Number : 64 Question Id : 4165295929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which of the following does the genotype of the mother control the offspring's phenotype:

- a. Maternal Inheritance
- b. Maternal Effect
- c. X Inactivation
- d. Synapsis

Question Number : 65 Question Id : 4165295930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

mtDNA and cpDNA are associated with the study of _____ inheritance.

- a. Extranuclear
- b. Epigenetic
- c. Mendelian
- d. Epistatic

Question Number : 66 Question Id : 4165295931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Extranuclear inheritance commonly occurs in:

- a. Nucleus
- b. Cytoplasmic Organelles
- c. Ribosomes
- d. Endoplasmic reticulum

Question Number : 67 Question Id : 4165295932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term 'linkage' was coined by:

- a. Correns
- b. Mendel
- c. Morgan
- d. Weinberg

Question Number : 68 Question Id : 4165295933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mendel did not observe linkage due to:

- a. Mutation
- b. Synapsis
- c. Crossing over
- d. Polymorphism

Question Number : 69 Question Id : 4165295934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The phenomenon of linkage was first observed in the plant:

- a. Lathyrus odoratus
- b. Pisum sativum
- c. Datura
- d. None of the options

Question Number : 70 Question Id : 4165295935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In homogametic male the sperms produced are:

- a. All identical
- b. Not identical
- c. All faulty
- d. Not produced

Question Number : 71 Question Id : 4165295936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In honey bee the drone develops:

- a. Parthenogenetically
- b. Gynandromorphic
- c. Intersexual
- d. Homosexual

Question Number : 72 Question Id : 4165295937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The sex chromosome responsible for male fertility in humans is:

- a. Y chromosome
- b. X chromosome
- c. Z chromosome
- d. All of the options

Question Number : 73 Question Id : 4165295938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sex-linked genetically inherited traits:

- a. Can appear in both males and females
- b. Are only found in males
- c. Are only found in females
- d. None of the options

Question Number : 74 Question Id : 4165295939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Y-linked traits are inherited:

- a. Only by females
- b. Only by males
- c. In both males and females
- d. None of the options

Question Number : 75 Question Id : 4165295940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Red-green colour blindness is:

- a. An X-linked trait
- b. A Y-linked trait
- c. Both X and Y-linked trait
- d. Somatic

Question Number : 76 Question Id : 4165295941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Members of the same species which are capable of interbreeding are best described as:

- a. Community
- b. Population
- c. Ecosystem
- d. Biosphere

Question Number : 77 Question Id : 4165295942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If 16% of the persons in a population show a recessive trait, the allelic frequency for the dominant allele is:

- a. 4%
- b. 16%
- c. 48%
- d. 96%

Question Number : 78 Question Id : 4165295943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If four percent of a population shows a recessive trait, the frequency of carriers in the following generation will be:

- a. 4%
- b. 16%
- c. 28%
- d. 32%

Question Number : 79 Question Id : 4165295944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The genes present in an organism represent the organism's:

- a. Genotype
- b. Phenotype
- c. Physical traits
- d. Allele

Question Number : 80 Question Id : 4165295945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many alleles for one trait are normally found in the genotype of an organism?

- a. 1
- b. 2
- c. 3
- d. 4

Question Number : 81 Question Id : 4165295946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a dihybrid cross the phenotypic ratio obtained is:

- a. 1:2:1
- b. 9:3:3:1
- c. 3:1
- d. 5:4:1

Question Number : 82 Question Id : 4165295947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pre-zygotic isolating mechanisms include all of the following except:

- a. Hybrid sterility
- b. Courtship rituals
- c. Habitat separation
- d. None of the options

Question Number : 83 Question Id : 4165295948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Reproductive isolation and the evolution of species could occur through:

- a. Founder effect
- b. Reinforcement
- c. Founder effect and reinforcement
- d. None of the options of the options

Question Number : 84 Question Id : 4165295949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Speciation occurs most frequently in populations that are:

- a. Sympatric
- b. Undergoing disruptive selection
- c. Allopatric
- d. All of the options

Question Number : 85 Question Id : 4165295950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gametes are:

- a. Diploid
- b. Aneuploid
- c. Haploid
- d. Polyploid

Question Number : 86 Question Id : 4165295951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

'Polyploidy' means having:

- a. Two sets of chromosomes
- b. More than two sets of chromosomes
- c. Four sets of chromosomes
- d. Eight sets of chromosomes

Question Number : 87 Question Id : 4165295952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A polyploidy species having complete sets of chromosomes from two different ancestral species is called:

- a. Autopolyploid
- b. Allopolyploid
- c. Trisomic
- d. Disomic

Question Number : 88 Question Id : 4165295953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Inversion involves:

- a. Change in arrangement of chromosomal segment
- b. Deletion of genetic material
- c. Duplication of genetic material
- d. None of the options

Question Number : 89 Question Id : 4165295954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Myelocytic leukaemia is due to:

- a. Deletion in chromosome
- b. Change in sequence of nucleotides
- c. Loss of chromosome
- d. Transposons

Question Number : 90 Question Id : 4165295955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Unequal crossing over between chromosomes during meiosis results in:

- a. Loss of centromere
- b. Duplication
- c. Addition of chromosome
- d. All of the options

Question Number : 91 Question Id : 4165295956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Point mutation involves:

- a. Deletion
- b. Duplication
- c. Change in single base pair
- d. Transversion

Question Number : 92 Question Id : 4165295957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Transition type of gene mutation is caused when:

- a. GC is replaced by AT
- b. AT is replaced by GC
- c. AT is replaced by CG
- d. TA is replaced by GC

Question Number : 93 Question Id : 4165295958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gene mutation occurs at the time of:

- a. DNA repair
- b. DNA replication
- c. Cell division
- d. Gene deletion

Question Number : 94 Question Id : 4165295959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The word 'mutation' was coined by:

- a. Hugo De Vries
- b. Gregor John Mendel
- c. Watson and Crick
- d. Franklin

Question Number : 95 Question Id : 4165295960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mutation is a:

- a. Sudden heritable change
- b. Sudden change in genetic material
- c. Process of DNA recombination
- d. Process of DNA replication

Question Number : 96 Question Id : 4165295961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The theory proposed by Hugo de Vries is:

- a. The Cell Theory
- b. The Mutation Theory
- c. The Gene Theory
- d. None of the options

Question Number : 97 Question Id : 4165295962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term 'Evolution' was coined by:

- a. Herbert Spencer
- b. Lamarck
- c. Darwin
- d. Mendel

Question Number : 98 Question Id : 4165295963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Theory of continuity of germplasm was put forward by:

- a. Lamarck
- b. Mendel
- c. Weismann
- d. Darwin

**Question Number : 99 Question Id : 4165295964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

According to Lamarck, evolution is a:

- a. Slow or gradual process
- b. Fast process
- c. Quick process
- d. None of the options

**Question Number : 100 Question Id : 4165295965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 1 Wrong Marks : 0

The struggle between the individuals of different species is called as:

- a. Interspecific struggle
- b. Intraspecific struggle
- c. Environmental struggle
- d. All of the options