



BIOLOGY

BOOKS - NAVBODH BIOLOGY (HINGLISH)

GIVE REASONS

Genetic Basis Of Inheritance

1. Mendel selected garden pea for his breeding experiments.



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2. When Mendel crossed a tall pea plant with a dwarf pea plant the offspring obtained from this cross were all tall.



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3. Test cross is a back cross but cross is not necessarily a test cross.



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4. The law of dominance is not universally applicable.



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5. The law of segregation is universally applicable.



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1. DNA molecule looks like a twisted ladder.



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2. The strands in the DNA molecule are regarded as complementary.



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3. DNA replication is called semiconservative.



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Enhancement In Food Production

1. Why are biofortified maize and wheat considered nutritionally improved ?

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2. Selection process after hybridization is very crucial in breeding programmes.

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3. Give reason: Emasculation is done in a flower which is selected as female parent.



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Microbes In Human Welfare

1. Buttermilk is used in the dough of dhokla.



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Photosynthesis

1. The electrons donated by chlorophyll molecules during noncyclic photophosphorylation do not come back to the chlorophyll molecules.



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2. Chloroplast is said to be semi-autonomous cell organelle.



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3. In CAM plants, CO_2 enters through the stomata during the night time only.



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Respiration

1. ATP is called the energy currency of a cell.



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2. EMP pathway is common in both aerobic and anaerobic respiration.



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3. Anaerobic respiration produces less energy than aerobic respiration.



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4. Respiratory pathway is referred to as an amphibolic pathway ?



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5. The TCA cycle or Krebs cycle occurs in mitochondria.



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Reproduction In Plants

1. Parthenocarpic fruits are without seeds.



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2. Self pollination is the most economic method for the plant.



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Organisms And Environment I

1. The pyramid of energy is always upright.



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2. In an ecosystem the energy flow is always unidirectional.



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3. Ozone present in the stratosphere is called good ozone.



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4. The UV radiations are injurious.



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Origin And Evolution Of Life

1. Australopithecus s described as a man with ape brain.



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2. Archaeopteryx is called connecting link between reptiles and birds.

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Chromosomal Basis Of Inheritance

1. X linked inheritance is also called criss-cross inheritance.

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2. Possibility of female becoming a haemophilic is extremely rare.



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3. Thalassemia patients need regular blood transfusion.



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1. Mice are appropriate choice for transgenic experiments.



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2. Genetically engineered insulin is more advantageous.



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Human Health And Diseases

1. Common cold is the most frequent infectious disease in humans. Justify the statement.



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2. Vaccination is important for preventing pneumonia.



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3. Innate immunity is called as non-specific immunity.



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4. Typhoid is food and water-borne disease.



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Animal Husbandry

1. Indian Economy is mainly based on agriculture.



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2. Visit of a veterinary doctor to a dairy farm is mandatory.



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Circulation

1. Most of the medicines/saline are administered through veins than arteries.



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2. Blood pressure is inversely related to the elasticity of the blood vessels.



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3. Human heart is myogenic.





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4. Pericardium acts as a defence wall for the heart.



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5. Lymphatic vessels are milky in appearance.



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6. Monocytes are called scavengers.



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7. The wall of left ventricle is thicker than right ventricle.



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8. Valves are present in the veins.



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9. Pulmonary veins carry oxygenated blood.



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Excretion And Osmoregulation

1. Urinary bladder is provided with transitional epithelium and detrusor muscles.



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2. EFP is created in the glomerulus.



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3. Osmoregulation and excretion go hand in hand.



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4. Distal convoluted tube is important for homeostatic regulation of acidity of blood.





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Control And Coordination

1. 'Injury to medulla oblongata causes sudden death'. Explain why.



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2. Number of gyri is related to the degree of intelligence.



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3. Pituitary may be considered as the coordinator of endocrine orchestra but not master endocrine gland.

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4. Pituitary gland was formerly called, 'master endocrine gland'.

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5. Oxytocin is 'birth hormone'.



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6. People living in hilly region are advised to use 'iodised salt'.



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7. Old age persons show weak 'immune response'.



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8. Pancreas is a dual gland.



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Human Reproduction

1. Testes are located outside the body cavity.



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2. Human female has restricted reproductive life.



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3. The acrosome of sperm secretes an enzyme called hyaluronidase at the time of fertilization.



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4. Zona pellucida is retained for sometime after fertilization.



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5. Scrotal sac serves as thermo regulator.



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6. Corpus luteum gets converted into corpus albicans in absence of fertilization.



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7. Missing of menses is the first indication of pregnancy.



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8. Surgical sterilization is a method of birth control.



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9. Human egg is microlecithal.



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Organisms And Environment li

1. It is necessary to conserve biodiversity for mankind.



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2. Conservation through proper planned and judicious use of resources is essential.



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