

NEET BIOLOGY - VIKASANA

- * The terms 'Lead' in taxonomic aid used for identification of plants and animals refers to:
 - (1) Paired contrasting characters
 - (2) Habitat and distribution of plants
 - (3) Information for identification of species
 - (4) Each statement in the key.**Hint: (1) Couplet (2) Flora (3) Manual

- * Which criteria the R. H. Whittaker's five Kingdom Classification does not include?
 - (1) Thallus Organization
 - (2) Mode of Nutrition
 - (3) Phylogeny
 - (4) Habitat**

- * Diatoms and Desmids are regarded as Planktons because they:
 - (1) Are similar to plants.
 - (2) Are minute and free floating.**
 - (3) Minute and active swimming.
 - (4) Have two thin overlapping cell wall.

- * Algin is a:
 - (1) Reserve food in brown algae.
 - (2) Cell wall constituent of brown algae.
 - (3) Cell wall constituent of red algae.
 - (4) Gelatinous coating material on the cellulosic wall in brown algae.**

- * Which phylum is characterised by features like radial symmetry and tissue grade of organization with exclusive marine animals?
 - (1) Porifera
 - (2) Coelenterata
 - (3) Echinodermata
 - (4) Ctenophora**

- * An organism showing spindle shaped elongated body was caught in the fisherman net. It had a circular mouth, scaleless body and was devoid of paired fins. Which among the following is the most likely organism?
 - (1) Hemichordate
 - (2) Cyclostome**
 - (3) Cartilaginous fish
 - (4) Bony fish

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- * *Select the WRONG statement:*
 - (1) Guard cells of grasses are dumbbell shaped.
 - (2) Trichomes prevent check transpiration.
 - (3) Only parenchyma constitute ground tissue.**
 - (4) Phloem parenchyma is absent in most monocots.

- * *Cell junctions of epithelial cells associated for rapid transfer ions, small molecules and sometimes big molecules are called:*
 - (1) Plasmodesmata
 - (2) Tight junctions
 - (3) Adhering junctions
 - (4) Gap junctions**

- * *The non-staining secondary constrictions seen at a constant region in few chromosomes are called:*
 - (1) Kinetochores
 - (2) Satellites**
 - (3) Nucleosomes
 - (4) Heterochromatin

- * *The polymer of fructose is:*
 - (1) Cellulose
 - (2) Chitin
 - (3) Glycogen
 - (4) Inulin**

- * *During the G₁ phase of cell cycle if the DNA is denoted by 2C and number of Chromosomes 4, by the end of S phase the DNA and number of chromosomes would be:*
 - (1) 4C & 4 respectively.**
 - (2) 2C & 4 respectively.
 - (3) 4C & 8 respectively.
 - (4) 2C & 8 respectively

- * *If a plant cell placed in a solution shrinks away with its cell membrane, it denotes that the cell sap has:*
 - (1) More solute concentration and high water potential.
 - (2) More solute concentration and low water potential.
 - (3) Less solute concentration and high water potential.**
 - (4) Less solute concentration and low water potential.

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- * *Read the statements A and B and select the correct option for the cause for appearance of brown spots surrounded by chlorotic veins in plants:*
(A) Deficiency of iron, magnesium and calcium.
(B) Manganese toxicity.
(1) A and B.
(2) Neither A or B.
(3) A.
(4) B.
- * *The greenhouse crops are:*
(1) Bell pepper & Sorghum.
(2) Maize & Tomato.
(3) Tomato & Bell pepper.
(4) Maize & Sugarcane.
- * *If the RQ value of Tripalmitin is 0.7, then it is a:*
(1) Carbohydrate
(2) Organic acid
(3) Fatty acid
(4) Protein
- * *The growth regulator is known to enhance sugar production in sugarcane crops is:*
(1) Cytokinin
(2) Auxin
(3) Gibberellic acid
(4) Ethylene
- * *If the average respiratory rate in an adult healthy individual is 15, what will be the volume of air inspired per minute?*
(1) 7.5 lts
(2) 3 lts
(3) 4.5 lts
(4) 1.5 lts
- * *Select the factor that decreases the cardiac output:*
(1) Adrenal medullary hormones.
(2) Neural signals from Parasympathetic nerves.
(3) Sympathetic neural signals.
(4) Exercise.

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- * *Thymosin secreted by:*
 - (1) Endocrine pancreas and is responsible for raising the blood sugar level.
 - (2) Thyroid gland that regulate the blood calcium level.
 - (3) Thymus gland which increases production of T lymphocytes.**
 - (4) Kidney cells that promotes Erythropoiesis.

- * *Which among the following is least likely to be a clone?*
 - (1) Monozygotic twins.
 - (2) Organism developed from vegetative propagules.
 - (3) Hydra derived from a bud.
 - (4) Offspring derived from autogamy.**

- * *The floral reward offered by flower of *Amorphophallus* to insect is:*
 - (1) Nectar
 - (2) Nectar & Pollen grains
 - (3) Pollen grains
 - (4) Safe place for egg laying.**

- * *The human placenta is formed by:*
 - (1) Uterine tissue and Umbilical cord.
 - (2) Uterine tissue and Chorionic villi.**
 - (3) Chorionic villi and Umbilical cord.
 - (4) Foetus and Uterus.

- * *Which one of the following is considered as the ideal contraceptive for the female who want to delay pregnancy and/ or space children?*
 - (1) Diaphragms, Cervical caps and Vaults.
 - (2) Intra Uterine Devices.**
 - (3) Tubectomy.
 - (4) Oral contraceptive pills such as Saheli.

- * *In grasshoppers, if an egg is fertilized by a sperm having only a set of autosomes, then the offspring would be:*
 - (1) Bisexual
 - (2) aneuploids
 - (3) Male**
 - (4) Female

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- * *Which type of blood group is not expected in the offspring of a couple where both the members have co-dominant trait for ABO- blood type?*
 - (1) AB
 - (2) A
 - (3) B
 - (4) O**

- * *'All living organisms that we see today are created as such' – this is a connotation of theory:*
 - (1) Spontaneous generation of Life.
 - (2) Biogenesis.
 - (3) Cosmozoa or Panspermia.
 - (4) Special creation.**

- * *Tendency of the body to manifest a characteristic and unpleasant withdrawal symptoms following discontinued drug intake is called:*
 - (1) Addiction.
 - (2) Dependence.**
 - (3) Euphoria.
 - (4) Hallucination.

- * *Hisardale is organisms developed by*
 - (1) Inbreeding.
 - (2) Cross breeding.**
 - (3) Out breeding.
 - (4) Out crossing.

- * *The best breeding practice to obtain a pureline is:*
 - (1) Mating of more closely related individuals.**
 - (2) Mating of animals within the same breed with a distant ancestry.
 - (3) Mating of superior animals of different breeds.
 - (4) Mating of superior animals of different related species.

- * *Replacement of light coloured peppered moth by dark coloured peppered moth in response to change in environment during industrial revolution in Great Britain is called:*
 - (1) Stabilizing selection.
 - (2) Disruptive selection.
 - (3) Directional selection.**
 - (4) Diversifying selection.

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- * *The Hepatitis B vaccine:*
 - (1) rDNA protein produced from Bacteria.
 - (2) Is a type of Passive immunization
 - (3) Is an attenuated pathogen.
 - (4) **Contains polypeptide of pathogen that generate memory B and T cells.**

- * *The shift from grain to meat diet:*
 - (1) Helps to overcome the demand of food of growing population.
 - (2) Increases the incidences of cardiovascular diseases and obesity.
 - (3) **Creates more demand for cereals.**
 - (4) Helps to mitigate the agriculture load.

- * *Trichoderma microsporum is a/an:*
 - (1) Yeast that produces Statin.
 - (2) Fungi responsible for ringworm disease.
 - (3) **Fungi that produces Cyclosporine.**
 - (4) Bacterium that produces 'clot buster'.

- * *The rDNA having human gene was successfully inserted into the bacteria but the transformed cells failed to produce the desired protein. What could be the reason?*
 - (1) Failure at transcription level.
 - (2) **Inability to process HnRNA.**
 - (3) Absence of 80s RNA.
 - (4) Lengthy human gene.

- * *The consequence of increase in microbial population in the water bodies:*
 - (1) Decreases DO and BOD
 - (2) Increases DO and BOD
 - (3) Increases DO and decreases BOD
 - (4) **Decreases DO and increases BOD**