



SABARAGAMUWA PROVINCIAL DEPARTMENT OF EDUCATION

Subject - Science

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Grade - 09

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- Read unit 1 to 5 in your text book and answer the questions bellow.

01. Cross "x" the wrong statements and tick "✓" the correct ones.

- a) Micro-organisms are unicellular or multicellular organisms which cannot be seen clearly with the naked eye. ()
- b) Micro-organisms can live in favourable substrates as well as extreme environmental conditions like salt marshes. ()
- c) Rhizobium is a type of bacteria that lives on the root nodules of leguminous plants that can absorb atmospheric nitrogen. ()
- d) Genes of the bacterium *Bacillus thuringiensis* is muted in *Zea maize* genome produces toxins to crop pests. ()
- e) A fungi is used in developing golden rice enriched with vitamin A. ()
- f) Griseofulvin is used to destroy fungal infections ()
- g) Micro-organisms are used to decompose the organic waste matter in polluted water. ()
- h) Plastic that is decomposed by bacteria and virus are produced at present. ()
- i) Bacteria act as the pathogen for dengue disease while mosquitoes are the vectors. ()
- j) Biological weapons are harmful only to human. ()

02. If the following statements are correct mark "✓" if they are incorrect mark "x" in front of it.

- a) Eyes are situated inside the orbits in the skull. ()
- b) Pupil of the eye allows light to enter and pass through the lens. ()
- c) An inverted image is formed on the retina and the message about the image to the brain is sent through optic nerve. ()
- d) The image formed on retina is seen upright when the message is sent to the brain. ()
- e) The point that collects light rays in front of a concave lens is called the focal point of the lens. ()
- f) The distance from the eye lens to the retina can be changed. ()
- g) The ability to maintain visual focus on an object with both eyes creating a single visual image is called binocular vision. ()
- h) When cataract occurs the light rays coming from an object focuses on the retina. ()
- i) Glaucoma reduces the visual range of the eye and leads to blindness due to damage of the optic nerve. ()
- j) Audio sensory organ of the body is the ear. ()

03. Use the most suitable word to fill the blanks from the words within brackets.

(malleus, incus, external auditory canal, cochlea, ossicles, stapes, eustachian tube, semi circular canals, auditory nerve, convex, 20 Hz - 20000 Hz, ear lobe)

- a) is a cartilagenous organ.
- b) Ossicles are made up of three bones named
- c), ear lobe and tympanic membrane belong to outer ear.
- d) controls the pressure on either sides of the tympanic membrane.
- e) contributes to maintain the balance of the body.
- f) Auditory senses are taken to the brain by
- g) Auditory senses are transmitted to the auditory nerve by

04. Select the ones belonging to the following categories from the given list.

Glucose, carbon, fruit salad, methane, O_2 , Cl_2 , $CuSO_4$, Mg, N_2 , Cu, HCl, CO_2 , ethene, sea water.

- a) Two elements
- b) Three compounds
- c) Two substances that dissolve in water
- d) Three homo atomic molecules
- e) Two hetero atomic molecules
- f) A compound formed by the set of elements C, H, O
- g) Two compounds formed by the set of elements C, H
- h) A homogeneous mixture
- A heterogeneous mixture

05. Use the most suitable word to fill the gap.

(square meters, pascal, newton, increased, unit area, atmospheric pressure)

- a) If the area of the surface on which a force is acting decreased, the pressure
- b) The air around us exerts pressure, that is called
- c) The SI unit of measuring force is and the standard unit measuring area is
- d) Pressure is measured in
- e) The force exerted over a is known as pressure.