St John Baptist De La Salle Catholic School, Addis Ababa

Grade 8 General Science Mock Examination

4th Quarter

May/June 2023

Name: Roll Number: Section: Time Allowed: **60 minutes Multiple Choice**

1. The digestion of fat is facilitated by:

A. gastric juice B. saliva C. bile D. stomach

1. Among the following, which ones are the bones of the skull, vertebral column, hyoid, and the sternum?

A. Appendicular B. Axial C. Irregular D. Long bone

1. Which one of the following compounds is an alkyne?

A. CH3 CH2 CH3 B. CH C CH3 C. CH2 CH CH3 D. CH3 CH2 OH

1. Salts can be prepared by the reaction between
   1. Active metals and water
   2. Acidic oxides and water
   3. Bases and nonmetals
   4. Bases and acids
2. A lichen is a symbiotic association between a fungi and an algae. The algae provides food for its partner, while the fungi forms an anchor to protect the algae. This type of symbiosis would be referred to as

A. commensalism B. parasitism C. mutualism D. amensalism

1. Which of the following lists is composed of only biotic factors?
   1. Ant, temperature, soil, pH
   2. Snail, fish, algae, flea
   3. temperature, pH, Oxygen, Nitrate
   4. All
2. Which one of the following statements is true about the mode of nutrition of organisms?
   1. Chemoautotrophs produce their food by using sunlight, CO2, and water.
   2. Heterotrophs cannot make their food and they’re also known as producers.

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* 1. Both photoautotrophs and chemoautotrophs use sunlight to produce their own food.
  2. Blue-green algae is a photoautotrophic organism.

1. What is the name for a group og lung diseases and conditions that cause breathing difficulties?

A. COPD B. Peptic ulcers C. Hemorrhoids D. Osteoporosis

1. In which part of the respiratory system does gaseous exchange take place?

A. Bronchus B. Trachea C. Alveoli D. Bronchitis

1. What is the term that describes the action of breaking down of large fat globules into smaller droplets?

A. Digestion B. Emulsification C. Absorption D. Neutralization

1. During digestion that takes place in the alimentary canal, food travels down the canal in which order?
   1. mouth, esophagus, stomach, large intestine, small intestine, and rectum
   2. mouth, stomach, esophagus, small intestine, large intestine, and rectum
   3. mouth, small intestine, large intestine, and rectum
   4. mouth, esophagus, stomach, small intestine, large intestine, and rectum
2. What is the function of the vein?
   1. It is the smallest blood vessel
   2. it is a site for substance exchange between blood and tissues
   3. A vein carries blood towards the heart
   4. Veins always carry deoxygenated blood
3. Based on their shapes, bones are divided into four major categories. Which of the following is not one of the categories?

A. Flat B. Short C. Regular D. Long

1. A food chain is represented below:

phytoplankton *→* zooplankton *→* small fish *→* mackerel *→* seagull Which organism in the food chain is the a producer?

A. Seagull B. Zooplankton C. Phytoplankton D. Small fish

1. All but one are diseases or conditions associated with the skin. Which one is the outlier?

A. Rosacea B. Acne C. Leukemia D. Eczema

Wolf Vulture

Eagle

Mouse

Snake

Grasses

Grasshopper

1. Which organism is the primary consumer in the food web?

A. Grasses B. Eagle C. Grasshopper D. Wolf

1. The general formula that represents the alkene is

A. CnH2n+1 B. CnH2n+2 C. CnH2n D. CnH2n–2

1. Which of the following is an inorganic compound?

A. H2O B. CH4 C. (NH2)2CO D. C2H2

1. Among the following compounds, which one is classified under acidic inorganic compounds?

A. NaOH B. Mg(OH)2 C. HCl D. Ca(OH)2

1. In the reaction CaO + H2O*→* Y, ”Y” represents

A. CO2 B. Ca(OH)2 C. CaCO3 D. 2CaO

1. Which one of the following statements is true about oxides?
   1. Oxides are binary compounds containing Oxygen.
   2. All nonmetallic oxides are acidic oxides.
   3. All metallic oxides are basic oxides.
   4. All.
2. These cells are the types of blood cells that lack nucleus

A. Erythrocytes B. Leucocytes C. Thrombocytes D. A & C

1. A sex hormone that causes a lot of body changes associated with female puberty is

A. progestrone B. estrogen C. testosterone D. androgen

1. Nitrogen fixation is the conversion of
   1. Nitrogen to ammonia
   2. Nitrate to nitrogen gas
   3. Nitrogen to nitrates
   4. A & C
2. A type of tooth that is located behind the canines for the purpose of crushing, or grinding food is known as

A. molar B. premolar C. incisor D. jaw

1. Which one of the following is not the function of the skeletal system?
   1. It stores salt and calcium
   2. It produces blood cells
   3. It protects and supports the body
   4. It produces body heat
2. Which, among the following is not classified as a layer of the skin?

A. Epidermis B. Epididymis C. Hypodermis D. Dermis

1. When measuring the mass of a 40kg pupil, experimenters found the results to be 42.1kg, 43.1kg, and 44kg. Is the measurement accurate or precise?

A. both B. neither C. precise D. accurate

1. Which of the following physical quantities’ units is fundamental?

A. Newton B. Candela C. Joule D. Watt

1. Which of the following physical quantities is a vector quantity?

A. Current B. Momentum C. Speed D. Power

1. Out of the given planets below, which planet is closest to Jupiter?

A. Pluto B. Earth C. Venus D. Mercury

1. One of the following reasons is not why the Earth is suitable for life on Earth.
   1. Earth has right amount of liquid water that harbors and supports life.
   2. Earth’s position with respect to the Sun and the Moon make life ideal.
   3. Earth’s atmosphere is rich in Oxygen and other essential elements to support life.
   4. Earth is very massive and hence, repels asteroids and other celestial objects away from itself.
2. The path of planets around the sun is

A. circular B. elliptical C. rectangular D. zigzag

1. Of the celestial bodies given below, which one is different in classification from the rest?

A. Earth B. Mars C. Uranus D. Pluto

1. On her song ”Diamonds”, famous singer Rihanna sings ”*shine bright like a diamond* ”. What is wrong about this lyric in terms of physics?
   1. Nothing is wrong with the song.
   2. She is wrong because diamonds are non-luminous, but reflect it.
   3. She is wrong because diamonds are dull and don’t shine.
   4. She is wrong because diamonds are invisible to the naked eye.
2. When light passes through a glass prism or a drop of water or foam, it splits into a multicolored rays. What do we call this phenomenon and what causes it respectively?
   1. dispersion, refraction B. dispersion, reflection C. refraction, interference

D. reflection, dispersion

1. When light reflects off of a smooth surface, the reflection is regular. If parallel rays are incident on a smooth surface, what can we say about the reflected rays?
   1. The reflected rays are also parallel
   2. The rays are reflected with no pattern
   3. The reflected rays are perpendicular
   4. None
2. Which of the following is true about refraction?
   1. It is the bouncing of rays when encountering a boundary.
   2. It is the bending of rays when passing through different media.
   3. It is the spreading out of waves.
   4. It is the interaction between different rays.
3. Which of the following is not an imaging tool?

A. eyes B. computed tomography C. camera D. bulb

1. What do we mean by the rectilinear propagation of light?
   1. It means that light travels in a straight line.
   2. It means that light reflects off of a surface.
   3. It means that light undergoes a uniform motion.
   4. It means that light interacts with matter.
2. At what temperature do the Fahrenheit and Celsius scales become equal?

A. -60 B. 60 C. -40 D. 40

1. Which of the following colors has the highest frequency(is higher on the visible light spectrum)?

A. blue B. red C. green D. indigo

1. Which of the following is true about an image that can be cast on a screen?
   1. It is called a virtual image B. It is called a real image C. It is always upright

D. It is mostly inverted

1. Which of the following is true?
   1. Although humans are opaque to light, they are transparent to X rays.
   2. Light does not travel in a straight line.
   3. Light travels faster in water than it does in air.
   4. Light is instant.
2. A component which is used to close or break a circuit, is

A. bulb B. switch C. wire D. dry cell

1. Which of the following is the measure of the average kinetic energy of all particles in a system?

A. Temperature B. Heat C. Pressure D. Mass

1. When water boils, what heat transfer method helps it do so uniformly?

A. Convection B. Radiation C. Conduction D. Current

1. Which of the following devices has both a mirror and a lens in it?

A. Eyes B. Camera C. Telescope D. Projector

1. Which of the following is caused by reflection or use the application of reflection?

A. Mirage B. Dispersion C. Periscope D. Lens

1. Which of the following is incorrect about the images formed by plane mirrors? The images are

A. virtual B. right-left inverted C. upright D. real

1. Which of the following is true about the relationship between the intensity of sound waves (***I*** ) at a radial distance(***r*** ) from the source?
   1. *I ∝ r*2 B. *I ∝* 1

*r*2

1

C. *I ∝ r* D. *I ∝*

*r*

1. Which of the following is true about the speed of sound in different media?
   1. The speed of sound in air is greater than its speed in water
   2. The speed of sound in water is greater than its speed in air
   3. The speed of sound in air is greater than its speed in glass
   4. None
2. When we bring two magnets nearby each other, which of the following happens?
   1. If the ends brought together are the same pole, they attract
   2. If the ends brought together are the opposite pole, they attract
   3. If the ends brought together are the opposite pole, they repel
   4. Nothing happens
3. When heat energy from the sun reaches the Earth through empty space, which of the following heat transfer methods are taking place?

A. radiation B. convection C. reflection D. conduction

1. A region of space where we experience a magnetic force is called

A. Magnetic field B. Electric field C. Magnetic pole D. The Earth

1. Which of the following is not a luminous object?

A. The Moon B. A candle C. A stove D. The Sun

1. Which of the following are magnetic substances?

A. Aluminum B. Copper C. Iron D. Silver ‘

1. Which of the following is not a traditional unit of length?

A. Meter stick B. Cubit C. Span D. Step

1. When a freely moving magnetic needle deflects, it shows that the magnetic field has

A. Mass B. Speed C. Acceleration D. Direction

1. A circuit element’s symbol is showed below. What element does it represent?

A. Capacitor B. Battery C. Wire D. Bulb