

St John Baptist De La Salle Catholic School, Addis

Ababa

Grade 8 General Science Mock Examination

4th Quarter

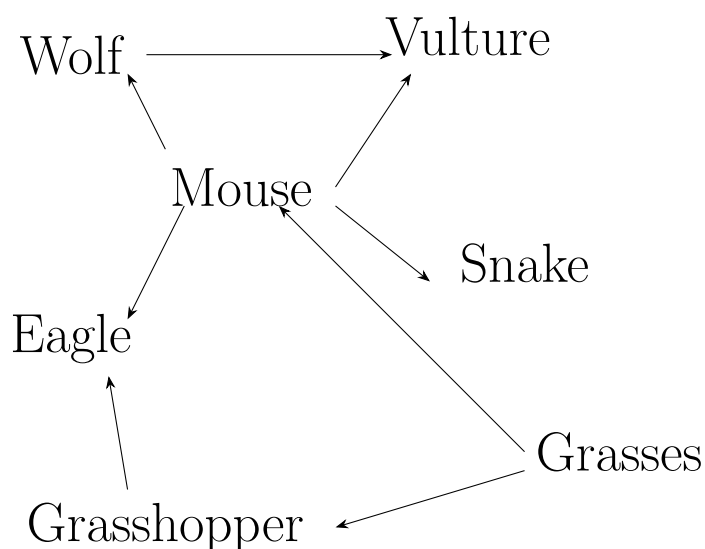
May/June 2023

Name: _____ Roll Number: _____ Section: _____ Time Allowed: **60 minutes**

Multiple Choice

- The digestion of fat is facilitated by:
A. gastric juice B. saliva C. bile D. stomach
- 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
- Which one of the following compounds is an alkyne?
A. $\text{CH}_3\text{--CH}_2\text{--CH}_3$ B. $\text{CH}\equiv\text{C--CH}_3$ C. $\text{CH}_2=\text{CH--CH}_3$ D. $\text{CH}_3\text{--CH}_2\text{--OH}$
- Salts can be prepared by the reaction between
A. Active metals and water
B. Acidic oxides and water
C. Bases and nonmetals
D. Bases and acids
- 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
- Which of the following lists is composed of only biotic factors?
A. Ant, temperature, soil, pH
B. Snail, fish, algae, flea
C. temperature, pH, Oxygen, Nitrate
D. All
- Which one of the following statements is true about the mode of nutrition of organisms?
A. Chemoautotrophs produce their food by using sunlight, CO_2 , and water.
B. Heterotrophs cannot make their food and they're also known as producers.

- C. Both photoautotrophs and chemoautotrophs use sunlight to produce their own food.
 - D. Blue-green algae is a photoautotrophic organism.
8. What is the name for a group of lung diseases and conditions that cause breathing difficulties?
A. COPD B. Peptic ulcers C. Hemorrhoids D. Osteoporosis
9. In which part of the respiratory system does gaseous exchange take place?
A. Bronchus B. Trachea C. Alveoli D. Bronchitis
10. 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
11. During digestion that takes place in the alimentary canal, food travels down the canal in which order?
A. mouth, esophagus, stomach, large intestine, small intestine, and rectum
B. mouth, stomach, esophagus, small intestine, large intestine, and rectum
C. mouth, small intestine, large intestine, and rectum
D. mouth, esophagus, stomach, small intestine, large intestine, and rectum
12. What is the function of the vein?
A. It is the smallest blood vessel
B. it is a site for substance exchange between blood and tissues
C. A vein carries blood towards the heart
D. Veins always carry deoxygenated blood
13. 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
14. 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
15. All but one are diseases or conditions associated with the skin. Which one is the outlier?
A. Rosacea B. Acne C. Leukemia D. Eczema



16. Which organism is the primary consumer in the food web?
A. Grasses B. Eagle C. Grasshopper D. Wolf
17. The general formula that represents the alkene is
A. C_nH_{2n+1} B. C_nH_{2n+2} C. C_nH_{2n} D. C_nH_{2n-2}
18. Which of the following is an inorganic compound?
A. H_2O B. CH_4 C. $(NH_2)_2CO$ D. C_2H_2
19. Among the following compounds, which one is classified under acidic inorganic compounds?
A. $NaOH$ B. $Mg(OH)_2$ C. HCl D. $Ca(OH)_2$
20. In the reaction $CaO + H_2O \rightarrow Y$, "Y" represents
A. CO_2 B. $Ca(OH)_2$ C. $CaCO_3$ D. $2CaO$
21. Which one of the following statements is true about oxides?
A. Oxides are binary compounds containing Oxygen.
B. All nonmetallic oxides are acidic oxides.
C. All metallic oxides are basic oxides.
D. All.
22. These cells are the types of blood cells that lack nucleus
A. Erythrocytes B. Leucocytes C. Thrombocytes D. A & C
23. A sex hormone that causes a lot of body changes associated with female puberty is
A. progesterone B. estrogen C. testosterone D. androgen
24. Nitrogen fixation is the conversion of
A. Nitrogen to ammonia
B. Nitrate to nitrogen gas
C. Nitrogen to nitrates
D. A & C
25. 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

26. Which one of the following is not the function of the skeletal system?
- A. It stores salt and calcium
 - B. It produces blood cells
 - C. It protects and supports the body
 - D. It produces body heat
27. Which, among the following is not classified as a layer of the skin?
- A. Epidermis B. Epididymis C. Hypodermis D. Dermis
28. 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
29. Which of the following physical quantities' units is fundamental?
- A. Newton B. Candela C. Joule D. Watt
30. Which of the following physical quantities is a vector quantity?
- A. Current B. Momentum C. Speed D. Power
31. Out of the given planets below, which planet is closest to Jupiter?
- A. Pluto B. Earth C. Venus D. Mercury
32. One of the following reasons is not why the Earth is suitable for life on Earth.
- A. Earth has right amount of liquid water that harbors and supports life.
 - B. Earth's position with respect to the Sun and the Moon make life ideal.
 - C. Earth's atmosphere is rich in Oxygen and other essential elements to support life.
 - D. Earth is very massive and hence, repels asteroids and other celestial objects away from itself.
33. The path of planets around the sun is
- A. circular B. elliptical C. rectangular D. zigzag
34. Of the celestial bodies given below, which one is different in classification from the rest?
- A. Earth B. Mars C. Uranus D. Pluto
35. On her song "Diamonds", famous singer Rihanna sings "*shine bright like a diamond*". What is wrong about this lyric in terms of physics?
- A. Nothing is wrong with the song.
 - B. She is wrong because diamonds are non-luminous, but reflect it.
 - C. She is wrong because diamonds are dull and don't shine.
 - D. She is wrong because diamonds are invisible to the naked eye.
36. 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?
- A. dispersion, refraction B. dispersion, reflection C. refraction, interference
 - D. reflection, dispersion
37. 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?
- A. The reflected rays are also parallel

- B. The rays are reflected with no pattern
 - C. The reflected rays are perpendicular
 - D. None
38. Which of the following is true about refraction?
- A. It is the bouncing of rays when encountering a boundary.
 - B. It is the bending of rays when passing through different media.
 - C. It is the spreading out of waves.
 - D. It is the interaction between different rays.
39. Which of the following is not an imaging tool?
- A. eyes B. computed tomography C. camera D. bulb
40. What do we mean by the rectilinear propagation of light?
- A. It means that light travels in a straight line.
 - B. It means that light reflects off of a surface.
 - C. It means that light undergoes a uniform motion.
 - D. It means that light interacts with matter.
41. At what temperature do the Fahrenheit and Celsius scales become equal?
- A. -60 B. 60 C. -40 D. 40
42. Which of the following colors has the highest frequency(is higher on the visible light spectrum)?
- A. blue B. red C. green D. indigo
43. Which of the following is true about an image that can be cast on a screen?
- A. It is called a virtual image B. It is called a real image C. It is always upright
D. It is mostly inverted
44. Which of the following is true?
- A. Although humans are opaque to light, they are transparent to X rays.
 - B. Light does not travel in a straight line.
 - C. Light travels faster in water than it does in air.
 - D. Light is instant.
45. A component which is used to close or break a circuit, is
- A. bulb B. switch C. wire D. dry cell
46. 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
47. When water boils, what heat transfer method helps it do so uniformly?
- A. Convection B. Radiation C. Conduction D. Current
48. Which of the following devices has both a mirror and a lens in it?
- A. Eyes B. Camera C. Telescope D. Projector

49. Which of the following is caused by reflection or use the application of reflection?
A. Mirage B. Dispersion C. Periscope D. Lens
50. 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
51. Which of the following is true about the relationship between the intensity of sound waves (I) at a radial distance(r) from the source?
A. $I \propto r^2$ B. $I \propto \frac{1}{r^2}$ C. $I \propto r$ D. $I \propto \frac{1}{r}$
52. Which of the following is true about the speed of sound in different media?
A. The speed of sound in air is greater than its speed in water
B. The speed of sound in water is greater than its speed in air
C. The speed of sound in air is greater than its speed in glass
D. None
53. When we bring two magnets nearby each other, which of the following happens?
A. If the ends brought together are the same pole, they attract
B. If the ends brought together are the opposite pole, they attract
C. If the ends brought together are the opposite pole, they repel
D. Nothing happens
54. 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
55. A region of space where we experience a magnetic force is called
A. Magnetic field B. Electric field C. Magnetic pole D. The Earth
56. Which of the following is not a luminous object?
A. The Moon B. A candle C. A stove D. The Sun
57. Which of the following are magnetic substances?
A. Aluminum B. Copper C. Iron D. Silver
58. Which of the following is not a traditional unit of length?
A. Meter stick B. Cubit C. Span D. Step
59. When a freely moving magnetic needle deflects, it shows that the magnetic field has
A. Mass B. Speed C. Acceleration D. Direction
60. A circuit element's symbol is showed below. What element does it represent?



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