ADDIS ABABA CITY ADMINISTRATION EDUCATION BOREAU KOLFE KERANIO SUB-CITY MODEL EXAMINATION FOR GRADE EIGHT GENERAL SCIENCE TIR 1-2015/ JANNUARY 9-2024

NUMBER OF QUESTION: 60

TIME ALLOWD: 1 HOUR

GENERAL DIRECTION

THIS BOOKLET CONTAINCE GENERAL SCIENCE EXAMINATION THIS EXAMINATION THERE ARE A TOTAL OF 60 MULTIPLE CHOICE QUESTIONS. CAREFULL SELECT THE BEST ANSWER AND BLACKEN ONLY THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED.USE ONLY PENCIL TO MARK YOUR ANSWER. YOUR ANSWER MARK SHOULD BE HAEVY AND DARK, COVERING THE ANSWER SPACE COMPLETELY. PLACE ERASE ALL UNNECESSARY MARKS COMPLETELY FROM YOUR ANSWER SHEET. FOLLOW THE INSTRUCTIONS ON THE ANSWER SHEET AND THE EXAMINATION PAPER CARFULLY.

YOU ARE ALLOWED TO WORK ON THE EXAM FOR 1 HOUR WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING, PUT YOU PENCIL DOWN WAIT FOR FUTHER INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMIBATION HALL AND CANCELLATION OF YOU SCORE.

PLEASE MARK SURE THAT YOU HAVE WRITTEN ALL THE REQUIRED INFORMATION ON THE ANSWER SHEET BEFORE YOU START TO WORK ON THE EXAMINATION.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

1. Which one of the following is not fundamental physical quantity?

A. Length B. Time C. Area D. Time

2. The amount of matter present in a substance is called_____.

A. Volume B. Mass C. Weight D. Matter

3. Which of the following is a quantity measure the duration of an event?

A. Mass B. Area C. Time D. Speed

4. The accepted value is 2.43. Which correctly describes this student's experimental data?

Trial Measurements

1. 1.19

2. 1.93

3. 2.98

A. Accurate but not Precise C. both Accurate and Precise

B. Precise but not accurate D. Neither Accurate nor Precise

5. The prefix that represents $\frac{1}{1000}$ is_____.

A. Kilo- B. milli- C. Centi- D. Micro-

6. Which one of the following alternatives different from others?

A. Kuntal & Feresula B. Sini & Birchiko C. Kubaya D. Jog

7. Which of the following is a scientific measurement of temperature?

A. Triple beam balance C. measuring cylinder

B. Thermometer D. measuring tape

8. _____ is the last and a very important step in the scientific investigation.

A. Draw Conclusion C. asking a question

B. form a hypothesis D. Communicate results

9. Which of the following is NOT equivalent with 7micro?

A. 0.000007 B. $\frac{1}{7,000,000}$ C. $70x10^{-6}$ D. $7x10^{-6}$

10. Hanan, Yordanos, Danel and Robel measure the mass of known object. Its actual mass is 50Kg.

But they found its mass as follows.

Actual mass	Hanan	Yordanos	Danel	Robel
50Kg	57Kg	57.1Kg	57.11Kg	57.103Kg

So, the measurements are said to be_____.

A. Neither accurate nor precise B. Accurate but not precise

C. Precise but not accurate D. Accurate and precise

11. The two isotope chlorine atoms are $^{35}_{17}Cl$ and $^{37}_{17}Cl$ have different: _____

A. number of protons B. number of electrons

C. number of neutrons D. atomic numbers

12. The process of gathering information and previous findings about your inquiry is said to be_____

A. Testing hypothesis B. Back-ground research.

C. Communicating results D. Putting a final conclusion of your finding.

13. If an object has 680 Kg mass, how mach in feresula?

A. 40 B. 4 C. 4000 D. 400

14. How many seconds are there in a day?

A. 1440 B. 86,400 C. 5,184 D. 24

15. Which of the following thought rejects the existence of atom?

A. Discreteness theory B. Law of conservation of mass

C. Proportionality theory D. Continuity theory

16. which number of the following is representing the prefix Giga-?

A. 1000 B. 10 C. 1,000,000,000 D. 1,000,000

17. A cobalt isotope has 60 mass number and 27 atomic number $(^{60}_{27}Co)$, the number of electrons for this neutral atom is ____.

A. 27 B. 87 C. 60 D. 33

18. which fundamental subatomic particles found in the nucleus of an atom?

A. proton and electron B. proton and neutron

C. neutron and electron D. proton, neutron and electron

19. which of the following is actual mass of electron?

A. 1.673×10^{-24}g B. 1.675×10^{-24}g

C. 1.605×10^{-19}C D. 9.109×10^{-28}g

20. Among the following which one is not diatomic molecule?

A. O_2 B. H_2 C. I_2 D. He

21. Among the following which subatomic particle have zero charge?

A. Electron B. Proton C. Neutron D. Both proton and electron

22. Which of the following is cannot be poly-atomic molecule of an element?

A. Sulfur B. Phosphorus C. Ozone D. Argon

23. A first person prepares urea which is organic compound from inorganic compound.

A. Friedrich Wohler B. Democritus C. Aristotle D. Galileo Galilee

24. which of the following contain only hydrogen and carbon atom?

A. organic compound B. Carbohydrates

C. Hydrocarbons D. inorganic compound

25. what is the name of hydrocarbon which is C_5H_8?

A. Propyne B. Pentyne C. Propene D. pentene

26. which of the following is not organic compound

A. CH_3Cl B. C_2H_5OH C. $Ca(OH)_2$ D. $C_{12}H_{22}O_{11}$

27. Which one is the correct formula of heptyne?

A. C_7H_{12} B. C_6H_{10} C. C_7H_{14} D. C_6H_{12}

28. which of the following is the main constituents of biogas?

A. methane B. propane C. ethane D. ethanol

29. _____ is hydrocarbon used to cutting and welding iron and steel.

A. ethane B. ethyne C. butane D. ethanol

30. A family hydrocarbon in which each member differs from the next by one methylene $-CH_2-$ group called _____.

A. hydrogen group B. Homogeneous mixture

C. Heterogeneous mixture D. homologous series

31. Which of the following organic compound is used for preservation of biological specimens?

A. Formalin B. Propane C. Decane D. Methane

32. Which of the following organic compound is wrongly matched with its use?

A. Ethanol -—-alcoholic beverages C. Butane ------ car fuel

B. Acetic acid ------- pickling of food D. Ethyne------- oxyacetylene flame.

33. What type of sulfuric acid (H_2SO_4) is?

A. Binary acid B. Oxyacid C. Dilute acid D. Base

34. Which of the following is not true?

A. most metallic oxides are acidic oxide

B. most nonmetallic oxide is acidic oxide

C. most metallic oxides are basic oxide

D. reaction of acidic oxide and basic oxide gives salt

35. The base which is dissolve in water is called _____.

A. salt B. Alkali C. Alkyne D. dilute

36. Which of the following is a binary compound containing oxygen and other element?

A. Binary acid B. Base C. Binary Salt D. Oxide

37. Which of the following correct about bases? bases have _____.

A. bitter test B. sour test C. sweet test D. salty test

38. reaction of acid with metallic (carbonate or hydrogen carbonate) is gives_____

A. salt + hydrogen B. salt + water

C. Salt + water + carbon dioxide D. salt+ hydrogen + carbon dioxide

39. which of the following is table salt?

A. $CaCO_3$ B. NaF C. KNO_3 D. NaCl

40. Which one of the following is not an example of metallic oxide.

A. CaO B. MaO C. CO_2 D. Al_2O_3

41. _____ is skin disease and characterized by bubble of fluid under the skin.

A. Acne B. Blister C. Cold sore D. Eczema

42. Which of the following is the upper layer of the skin?

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

43. Which of the following disease is caused by the pores of skin blocked with oil, dead skin or bacteria?

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

44. What is the fibrous protein in our skin that protects it from UV Light and give pigment?

A. Melanin B. Keratin C. Sebum D. Elastin

45. Which of the following body system is play the role in moving, speaking and chewing?

A. Circulatory system B. Integumentary system

C. Muscular system D. Respiratory system

46. Which of the following muscle is voluntary or consciously controlled?

A. Smooth muscle B. Skeletal muscle

C. Cardiac muscle D. non striated

47. A group of inherited disease characterized by weakness and wasting of muscle tissue is called _____.

A. Muscle dystrophy B. Muscle elasticity

C. Muscle strain D. Muscle contractility

48. Which of the following is component of skeletal system provides flexible and elasticity structures?

A. Bone B. Ligament C. Tendon D. Cartilage

49. Which of the following is the largest bone in the human body?

A. Skull B. Spine C Femur (thigh bone) D. Tibia (shin bone)

50. The place where two or more bones meet is called _____.

A. Joint B. Marrow C. Calcium D. Spinal cord

51. Which of the following is an example of immovable joint?

A. knee B. Elbow C. Skull D. Toe

52. Which of the following is not the function of skeletal system?

A. produced blood cells B. Storage of substance

C. Circulation of blood D. Protection and supports

53. Which of the following is the largest system in the body?

A. Excretory system B. Respiratory system

C. Digestive system D. Integumentary system

54. Which of the following are not components of digestive system?

A. Anus B. Stomach C. Vessels D. Esophagus

55. The main function of human digestive system is_____

A. Break down of food molecule into smaller and usable forms

B. Circulate digested foods throughout our body

C. Movement of body structure

D. Protect and support the body of an organism

56. Which types of muscle located only in the heart?

A. Smooth muscle B. Voluntary muscle

C. Skeletal muscle D. Cardiac muscle

57. Digestive process of human body completed in the _____.

A. Mouth B. Stomach C. Small intestine D. Large intestine

58. Air exchange in our body is occurs in the_____.

A. Mouth B. Stomach C. Lung D. Small intestine

59. Which of the following is the monthly discharge of blood through vagina?

A. Menstruation B. Ovulation C. Ejaculation D. Excretion

60. The ability of muscle that recover its size and shape after deformations

A. Elasticity B. Contractility C. Extensibility D. Excitability