

ARADA SUB CITY EDUCATIONAL OFFICE

MODEL EXAMINATION FOR GRADE EIGHT

GENERAL SCIENCE, TAHISAS 2016/ JANUARY 2024

NUMBER OF QUESTIONS: 60

TIME ALLOWED: - 1 HOUR

GENERAL DIRECTIONS

THIS BOOKLET CONTAINS **GENERAL SCIENCE** EXAMINATION. IN THIS EXAMINATION, THERE ARE A TOTAL OF **60 MULTIPLE CHOICE** QUESTIONS. CAREFULLY SELECT THE BEST ANSWER AND BLACKEN ONLY THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED. FOLLOW THE INSTRUCTIONS ON THE ANSWER SHEET AND THE EXAMINATION PAPER CAREFULLY. USE ONLY PENCIL TO MARK YOUR ANSWERS. YOUR ANSWER MARK SHOULD BE HEAVY AND DARK, COVERING THE ANSWER SPACE COMPLETELY. PLEASE ERASE ALL UNNECESSARY MARKS COMPLETELY FROM YOUR ANSWER SHEET.

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

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE (S).

PLEASE MAKE 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.

**2016 E.C ARADA SUB CITY EDUCATIONAL OFFICE FIRST SEMESTER  
GENERAL SCIENCE MODEL EXAM FOR GRADE 8 STUDENTS.**

**CHOOSE THE CORRECT ANSWER FROM THE GIVEN OPTIONS AND BLACKEN  
THE LETTER OF YOUR CHOICE ON THE ANSWER SHEET PROVIDED.**

1. A device that is used to measure the temperature of an object is  
A. Kelvin      B. thermometer      C. meter.      D. balance
2. One of the following is the amount of matter contained in a substance ?  
A. Length      B. Time      C. Mass      D. Volume
3. The SI unit of Length is \_\_\_\_\_  
A. Ruler      B. Meter      C. Kilometer      D. Millimeter
4. Which one of the following is fundamental physical quantity?  
A. Area      B. volume      C. Density      D. Temperature
5. Which one of the following is derived physical quantity?  
A. Length      B. Area      C. Mass      D. Time
6. The prefix that represents  $1 \div 1000000$  is \_\_\_\_\_  
A. Million      B. Millionth      C. Thousandth      D. Hundredth
7. How many seconds are in two hours?  
A. 7200      B. 720      C. 3600      D. 2400
8. 100000 cm is equal to \_\_\_\_\_ m.  
A. 10000      B. 1000      C. 100000      D. 100
9. which one of the following statement is **true**?  
A. Derived units are derived from fundamental units.  
B. Fundamental units are derived from derived units.  
C. Fundamental units are big in value but derived units are small in value.  
D. There is no difference between them.
10. which one is indigenous method of measuring volume?  
A. Cubit      B. digital balance      C. Tassa      D. foot
11. Which one of the following is not a scientific method?  
A. Gathering      B. observation      C. Evaluating      D. None

12. One is the measure of the duration for an interval
- A. Mass      B. Length      C. Time      D. Volume
13. The measure of the space occupied by an object is
- A. Length      B. Volume      C. Mass      D. Time
14. The process of obtaining the magnitude of a quantity to an agreed standard is.
- A. Physical quantity      C. Fundamental quantity  
B. Temperature      D. Measurement
15. Which one of the following is the smallest unit of time?
- A. Second      B. Minute      C. Hour      D. Microsecond
16. The idea that matter is continuous was accepted by \_\_\_\_\_
- A. Democritus      B. Dalton      C. Aristotle      D. Thomas Edison
17. Which of the following sub particle has the smallest mass?
- A. Proton      B. Neutron      C. nucleus      D. electron
18. The sum of the number of protons and neutrons in an atom is\_\_\_\_\_
- A. Atomic number      B. Atomic mass.      C. Mass number      D. electrons
19.  $3\text{O}_2$  contains
- A. Three oxygen atoms.      C. two oxygen atoms  
B. Three oxygen molecules      D. 5 oxygen molecules
20. Which one of the following sub particle is located in nucleus of an atom?
- A. Proton and neutron.      C. electron and neutron  
B. Proton and electron      D. proton, neutron and electron
21. The number of neutrons in  $^{19}_9\text{F}$  are
- A. 13      B. 10      C. 9      D. 12
22. The charge of neutron is\_\_\_\_\_
- A. Positive.      B. Negative      C. Charge less      D. none
23. What is the number of electrons in  $^{23}_{11}\text{Na}^+$  ion
- A. 10      B. 11      C. 23      D. 22
24. Which one of the following is diatomic molecule?
- A. Ne      B.  $\text{O}_3$       C.  $\text{O}_2$       D.  $\text{O}_4$

25. Which one of the following is molecule of an element?
- A. HCl                      B. CaO                      C. CO<sub>2</sub>                      D. O<sub>2</sub>
26. The mass of an atom is almost the mass of its \_\_\_\_
- A. Neutron                      B. Nucleus                      C. Proton                      D. Electron
27. The Chemical Symbol of an element gold is \_\_\_\_
- A. Hg                      B. Al                      C. Au                      D. Ag
28. How many neutrons, protons and electrons are there in <sup>27</sup><sub>13</sub>Al
- A. 27,13,14                      C. 13,14,14  
B. 14,13,13                      D. 27,14,13
29. The prefix 10<sup>-6</sup> represents the name \_\_\_\_
- A. Kilo                      B. milli                      C. micro                      D. mega
30. Which one of the following is not a noble gas element?
- A. Ar                      B. Li                      C. He                      D. Ne
31. The first idea of atom was proposed by the Greek philosopher \_\_\_\_
- A. Aristotle                      B. Plato                      C. Democritus                      D. Dalton
32. Which one of the following compounds obtained from living organisms?
- A. Oxides                      C. compounds  
B. inorganic compounds                      D. Organic compound
33. One of the following is hydrocarbons that have the general formula C<sub>n</sub>H<sub>2n</sub>
- A. Alkenes                      B. methane                      C. Alkynes                      D. All
34. Oxides that react with water to form bases or basic solution is called \_\_\_\_
- A. Basic oxides                      C. Oxides  
B. Acidic oxides                      D. Salt and water
35. One of the following can change blue litmus to red?
- A. Milk                      B. Lemon juice                      C. Soda ashes                      D. All
36. The name of alkane that contains 5 carbon atom is?
- A. Pentene                      B. Pentane                      C. Pentyne                      D. Methane

37. One is not hydrocarbon?

- A. Alkene      B. Alkyne      C. Alkane      D. Ethanol

38. Which of the following alcohol is found in alcoholic beverage?

- A. Propanol      B. Butanol      C. Ethanol      D. Butane

39. A bottle gas used as a fuel?

- A. Hexane      B. butane      C. Pentene      D. All

40. If an atom containing 19 protons, 19 electron and 20 neutrons, then what is its mass?

- A. 39      B. 49      C. 29      D. 59

41. Which of the following is used for production of plastics?

- A. Propene      B. Propane      C. Butane      D. methane

42. which one is the properties of acids

- A. PH value  $> 7$       C. Sour taste  
B. Change red to blue      D. releasing OH ion

43. Elements are formed from the smallest particles called\_\_\_\_\_

- A. Protons      B. Molecules      C. Atoms      D. neutrons

44. One of the following is properties of bases?

- A. Release OH ion      C. sour taste  
B. Change red to blue      D. A and B

45. A dye extracted from plant that show the presence of an acid or bases

- A. Product      B. indicators      C. Bases      D. properties of acid

46. Binary compound containing oxygen and any other elements are called\_\_\_\_\_

- A. Oxygen      B. salt      C. oxides      D. Base

47. Acidic oxide reacts with basic oxides to form \_\_\_\_\_?

- A. Base      B. Salt      C. Acids      D. oxide

48. Which one of the following is compounds that contain carbon and hydrogen atom?

- A. Element      B. oxides      C. Hydrocarbon      D. Acids

49. Bases are compounds that neutralized acid to form \_\_\_\_\_

- A. Acid  
B. Salt and water  
C. bases and water  
D. Salt

50. Naming of hydrocarbon is called \_\_\_\_\_.

- A. Formula      B. Symbol      C. Nomenclature      D. Name

51. One is group of substance that release hydrogen ions ( $H^+$ )

- A. Acids      B. Bases      C. Salt      D. water

52. which one of the following is not parts of integumentary system.

- A. Skin      B. Hair      C. Nail      D. Skeleton

53. The hard covering at the end of the finger or toe is?

- A. Skin                      B. Gland                      C. Nail                      D. muscle

54. The middle layer of the hair is called\_\_\_\_\_

- A. Cuticle      B. cortex      C. medulla      D. part of hair

55. one of the following Is an organ that makes substances such as hormones is?

- A. Gland      B. Epidermis      C. Skeleton      D. Hair

56. One of the following is skin disease except?

- A. Hives      B. Osteopenia      C. Acne      D. warts

57. The general formula of Alkyne is?

- A.  $C_nH_{2n}$       B.  $C_nH_{2n-2}$       C.  $C_nH_{2n+1}$       D.  $C_nH_{2n+2}$

58. One of the following is voluntary muscle.

- A. smooth muscle  
B. cardiac muscle  
C. skeletal muscle  
D. muscle

59. Hared bone filled with yellow bone marrow is called

- A. bone      B. short bone      C. long bone      D. tendon

60. One of the following is muscle disease that is a group of inherited disease.

- A. Acne      B. warts      C. muscular dystrophy      D. muscle strains