YEKA SUB CITY WOREDA 08 GENERAL SCIENCE MODEL EXAMINATION FOR GRADE EIGHT (8th) 1

DIRECTION ONE: CHOOSE THE CORRECT ANSWER FROM THE GIVEN FOUR ALTERNATIVES AND BLACKEN THE LETTER OF YOUR CHOICE ON THE ANSWER SHEET PROVIDED.1

1. The amount of matter present in a given substance is called _____.

A. time B. mass C. volume D. length

2. Which one of the following is an indigenous method of measuring volume?

A. digit B. feresula C. jog D. shadow

3. Which one of the following indigenous units of measurement used to measure the mass of powder of Gold in different Ethiopian local markets?

A. Feresula B. Quintal C. Weqet D. Tassa

4. Which one of the following device is used to measure the length of an object?

A. Thermometer B. Stop watch C. Spring Balance1 D. Vernier Caliper

5. Which one of the following is **NOT** a derived physical quantity?

A. Area B. Temperature C. Volume D. Speed1

6. An indigenous methods of measurement with persons extended walk.

A. Digit B. Foot C. Pace D. Cubit1

7. The distance from Addis Ababa to Makele is 783 km. What is the length between two cities in meter?

A. 7830m B. 0.0783m C. 78.30m D. 783000m

8. Most kids start primary school education when they are 7 years old. How many hours is this age?

A. 2,555hrs B. 61,320hrs C. 3,679,200hrs D. 220,752,000hrs

9. Which one of the following is the SI unit of fundamental physical quantity?

A. m/s B. m C. m/s^2 D. kg/m

10. Among the following which one is indigenous method of measuring mass?

A. quntal B. fathom C. Cubit D. Shadow

11. Which one of the following physical quantities is **mismatched** with its SI unit?

A. Mass- kilogram C. Speed- meter per second

B. Area- -cubic meter D. Density- kilogram per cubic meter2

12. The measure of distance from the tip of one's elbow to the tip of a middle finger when your arm is extended is called----------

A. Digit B. Cubit C. Foot D. Pace2

13. Which of the following sets contains only derived physical quantities?

A. mass, Time and length C. Time, length and density

B. mass, area and volume D. volume, density and area

14. Which one of the following is **not** the unit of temperature?

A. Kelvin B. Degree Celsius 2C. Fahrenheit D. Digital thermometer

15. In our solar system the estimated distance of the planet Jupiter from the sun is 779,000,000 km, which one of the following is the appropriate way of expressing this

distance in terms of prefixes?

A. 7790cm B. 779Mkm C. 77.9km D. 7.79km

16. How many feresula of a mass of 680 kg coffee?

A. 40 B. 20 C. 50 D. 680000

17. Which of the following is **not** SI unit of measurement?

A. Kelvin B. Kilogram C. Meter D. Hours

18. One of the following is the second step in scientific investigation?

A. perform back ground research C. communicating result

B. set hypothesis D. asking question

19. Among scientific method which step is concerned on putting together your findings & presenting them to others.

A. Communicating results C. Test your hypothesis

B. Analyze the result & draw conclusion D. establish your hypothesis3

20 If kebede measured the length of the table 4 times he got the result 3.1m, 3m, 2.99m and 3.05m. The actual or known length of the table is 4.89m which one of the following correct about Kebede's measurement?

A. accurate and precise C. precise but not accurate

B. accurate but not precise D. neither precise nor accurate

21. Which one of the following is indicate attentive explanation of for a set of observation?

A. hypothesis B. analyze the result C. conclusion D. communicating result

22. What is the prefix that represent 1,000.000 or 10^6 is ?

A. kilo B. micro C. mega D. centi

23. Which one of the following is Democritus' ancient debate about the nature of matter?

A. Matter is discrete C. Matter is continuous

B. Matter is infinitely divisible D. Atom does not exist

24. Which of the following are the two main parts composing an atom?

A. The electronic shell and the protons. C. The protons and the neutrons.

B. The nucleus and the electronic shells. D. The electrons and the protons.

25. The atomic number of an element is equal to_____

A. The sum of the numbers of protons and neutrons in the nucleus of an atom.

B. The difference between the mass number and the number of protons in an atom.

C. The difference between the mass number and the number of neutrons in an atom.

D. The number of neutron. 4

26. Which of the following fundamental subatomic particles are found in the nucleus of an atom?

A. Protons and electrons C. Neutrons and electrons

B. Protons and neutron D. Protons, neutrons and electrons4

27. Which of the following molecule is molecules of elements?

A. Hydrogen B. Ammonia C .Carbon dioxide D. Water

28. The atomic number and mass number of an atom is $^{24}_{12}Mg^{+2}$ How many numbers of protons, electrons and neutrons are there in this atom respectively ?

A.12 , 12 & 13 C . 12 , 10 & 12

B. 12, 12 & 12 D. 12 , 10 & 10

29. Which one of the following is **NOT TRUE** about the fundamental subatomic particles of an atom?

A. The protons and electron have the same numbers in neutral atom.

B. The protons and neutrons have approximate masses.

C. The protons and electrons are located in the nucleus of an atom.

D. The protons and electrons have opposite charges.

30. Which one of the following sub atomic particle have positively charged?

A. Protons B. Neutrons C. electrons D. mass numbers

31. Which one of the following is **not** a diatomic molecule?

A. Nitrogen B. Hydrogen C. Iodine D. Helium

32. Which one of the following molecules contain more than three atoms of an element?

A. Monoatomic molecules C. Polyatomic molecules

B. Diatomic molecules D. Both monoatomic & diatomic molecules

33. The idea that matter is continuous was proposed by?

A. democrats B. Aristotle C. Mendeleev D. Darwin

34. Which of the following sub-atomic particle located outside the nucleus of an atom?

A. electron C. electron and proton

B. proton and neutron D. neutron and electron

35. Which one of the following is a poly atomic molecule?

A. sulphur B. fluorine C. Argon D. Bromine

36. Which one of the following is NOT the molecule of compound?

A. H_2O B. HCl C. Ne D. CO_2

37. The mass number of an atom of element is_____

A. The sum of number of neutron and electrons

B. The sum of number of protons and number of electrons

C. The sum of number of protons and number of neutrons

D. The sum of number of electrons and atomic numbers

38. An atom with atomic number 27 and mass number 59 has _____neutrons.

A. 27 B. 39 C. 59 D. 32

39. Which of the following is true about atoms?

A. Neutral atom have positively charged neutrons

B. The charge of protons and electrons are the same

C. Most of the atoms volume is occupied by the electrons

D. The mass of an atom is determine by the mass of electrons

40. Which type of compound is obtained from living organisms?

A. Organic compounds. C. Both organic and inorganic compounds

B. Inorganic compounds D. Neither organic nor inorganic compounds.

41. Which one of the following is true about **vital force** theory?

A. Organic compounds are the constituents of minerals

B. Living things yields most inorganic compounds

C. Organic compounds composed from living things

D. In organic compounds composed from Hydrogen

42. The first organic compounds obtained from In organic compounds is

A. NH_4Cl B. AgCNO C. NH_4CNO D. $(NH_2)_2CO$

643. Which one of the following is the formula of an alkyne with four carbon atom?

A. C_4H_6 B.C_4H_{10} C. C_4H_8 D.C_4H_{12}

44. Which one of the following is the hydrocarbon used as a fuel for cooking, heating and generating electricity?

A. Propane B. Methane C. Butane D. Pentane6

45. Which of the following general formulas of hydrocarbons having a triple bond between carbon atoms that represents alkynes?

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

46. Hydrocarbon with a formula $\mathbf{C_7H_{14}}$ is

A. an alkyne B. an alkene C. an alkane D. an alkali

47. Which of the following is the name for a hydrocarbon with the formula $\mathbf{C_9H_{20}}$?

A. Octane B. nonene C. Nonane D. Decane

48. Which of the following is example of an acidic oxides

A. H_2O B. Na_2O C. Li_2O D. SO_2

49. Which one of the following compounds is organic compound?

A. CO_2 B. MgO C. H_2SO_4 D. C_5H_{10}

50. Which hydrocarbon can be used to produce oxyacetylene flame that used to cutting and welding steel and iron?

A. Ethyne B. Formalin C. Ethanol D. Methane

51. A general science teacher used a chemical in preserving biological specimens like snake, lizard, spider and frog in order to place them in a laboratory for a long times. Which chemical has the teacher used to preserve the specimens?

A. Acetic acid B. Ethanoic acid C. Vinegar D. Formalin7

52. Which one of the following oxides forms basic and basic solution when it reacts with water?

A. CO_2 B. SO_3 C. NO_2 D. CaO

53. Which of the following is **NOT** a homologous series of hydrocarbons?

A. C_2H_4, C_3H_4, C_4H_{10} C. CH_4, C_2H_6, C_3H_8

B. C_2H_2, C_3H_4, C_4H_6 D. C_2H_4, C_3H_6, C_4H_8

54. Which of the following is the correct formula of alkane that have 18 hydrogen atoms?

A. C_9H_{18} B.C_8H_{18} C. $C_{14}H_{18}$ D. $C_{12}H_{18}$

55. Which one of the following is a binary compound containing oxygen and other elements?

A. Acids B. Bases C. Salts D. Oxides7

56. Which of the following is molecular formula of nonyne hydrocarbons?

A. C_9H_{16} B.C_9H_{18} 7C. C_9H_{20} D. C_9H_{14}

57. Which of the following alcohol is found in all alcoholic beverages such as 'Tella, Tej',win?

A. Methanol B. Propanol C. Butanol D. Ethanol

58 Which one of the following is example of non-metallic oxide?

A. MgO B. SO_2 C. K_2O D. Li_2O

59. Which one of the following is acid anhydride of carbonic acid?

A.CO_2 B. CO C. SO_3 D. H_2CO_3

60. Which one of the following is neither acidic oxide nor basic oxide?

A. Na_2O B. N_2O C. P_2O_5 D. MgO

General science Answer for grade 8th (2016E.C)

1. B
2. C
3. C
4. D
5. B
6. C
7. D
8. B
9. B
10. A
11. B
12. B
13. D
14. D
15. B
16. A
17. D
18. A
19. B
20. C
21. A
22. C
23. A
24. B
25. C
26. B
27. A
28. C
29. C
30. A
31. D
32. C
33. B
34. A
35. A
36. C
37. C
38. D
39. C
40. A
41. C
42. D
43. A
44. B
45. A
46. B
47. C
48. D
49. D
50. A
51. D
52. D
53. A
54. B
55. D
56. A
57. D
58. B
59. A
60. B