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Name _____ Grade 8 **Subject**: General science
Full Date _____2023/2024 A.Y 2nd Quarter Model Exercise

I. Choose the best answer from the given alternatives.

1. Indigenous methods of measurement are characterized by
   A) Reliability & accuracy C) specific & uniqueness
   B) Universality & perfection D) unreliability & locality
2. _____ is the comparison of an unknown quantity with some known quantity.
   A) Unit B) science C) measurement D) Dimension
3. An indigenous methods of measurement with persons extended walk.
   A) Digit B) foot C) pace D) cubit
4. An indigenous time measurement based on divide the time interval between sunrise and sunset in 12 different parts.
   A) Sundial B) sand clock C) water clock D) hour glass
5. How many days are there in 5 decades?
   A) 25210 B) 21250 C) 18250 D) 51820
6. The SI unit of time is
   A) Hour B) minute C) day D) second
7. Which one of the following is derived physical quantity?
   A) Temperature B) mass C) Density D) length
8. 2000μ is equivalent with one of the following, which one is it?
   A) 2m B) 0.2C C) 200k C) 2000k
9. The mass of an object measured by the following instruments? except
   A) Top pan balance B) table balance C) spring balance D) Newton balance
10. Which one of the following is not the unit of temperature?
    A) Kelvin B) Digital thermometer C) Fahrenheit D) Degree Celsius
11. Students did an experiment on three trials as seen as the following table.

Trial	1	2	3
Group A	24.05	24.5	24.10
Group B	24.06	24.7	24.50
Group C	24.07	24.9	24.90

If the exact value of the experiment is 24.65 which trial is the most accurate by taking the average of each trials?
   A) 1 B) 2 C) 3 D) undetermined
12. From “11” which trial is the least precise?
   A) 1 B) 2 C) 3 D) 2 & 3
13. 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 hypothesis
14. Which one of the following unit is derived physical quantity’s unit?
   A) Newton B) second C) kilogram D) Ampere
15. A short hand form of writing very large or very small numbers is called
   A) symbol B) prefix C) abbreviation D) representation
16. What are the two parts of atoms?
   A) Nucleus & electrons B) proton & Neutron C) electron & proton D) neutron & electron
17. Which of the following is not a fundamental subatomic particle of an atom?

A) proton B) Neutron C) Nucleus D) electron

18. For the representation $^{184}_{74}W$ what is the number of neutrons & protons respectively.

A) 74 & 100 B) 110 &74 C) 74 & 74 D) 184 & 110

19. Which one of the following is not diatomic molecules of elements.

A) N_2 B) O_2 C) I_2 D) HCl

20. Which one of the following is not mono atomic molecule of elements?

A) Na B) He C) Ar D) Xe

21. Which one of the following is not correct?

A) Nucleus is the heavy positive center of an atom C) Neutrons are present in the atoms of all elements

B) Neutrons are present in the atoms of all elements D) Atoms have equal number of –ve ion & -ve ion.

22. An element has 92 protons, 92 electrons and146 Neutrons. So what is its mass number?

A) 146 B) 92 C) 238 D) 184

23. Which one of the following particle has the smallest mass?

A) Neutron B) electron C) proton D) Nucleus

24. 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

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

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

26. The simplest alkane is

A) Butane B) Methane C) Propane D) Hexane

27. Each member of the alkane series differs from the preceding member by the following condition except.

A) One additional carbon atom & two hydrogen atom C) CH_2

D) two additional hydrogen & one carbon atom B) methylene group

28. Which one of the following element is found in most organic compound with carbon?

A) Oxygen B) sulphur C) Nitrogen D) Hydrogen

29. The acid anhydride of Nitric acid (HNO_3) is

A) N_2O_3 B) N_2O_5 C) NO_2 D) N_2O

30. Which oxide used to form alkaline solution?

A) CO_2 B) CO C) P_2O_5 D) Na_2O

31. Which one of the following is an oxide?

A) B_2O_3 B) HCl C) NaOH D) K_2CO_3

32. For the reaction $SO_3 + Ca(OH)_2 \rightarrow CaSO_4 + X$, the value of x must be

A) base B) salt C) water D) Acid

33. The name of the acid $HBrO_3$ after removal two oxygen atom is

A) Bromic acid B) hypobromous acid C) bromous acid D) per bromic acid

34. Which one of the following is shortest.

A) 6478cm B) 0.0156km C) 5678mm D) 36m

35. _____ used to make prediction that can be tested by further experiment and verified.

A) Theory B) Hypothesis C) scientific law D) principle

36. The distance between station A to station B is 0.001km, if we want express it in SI unit, It will be

A) 10 B) 1 C) 0.00001 D) 0.0001

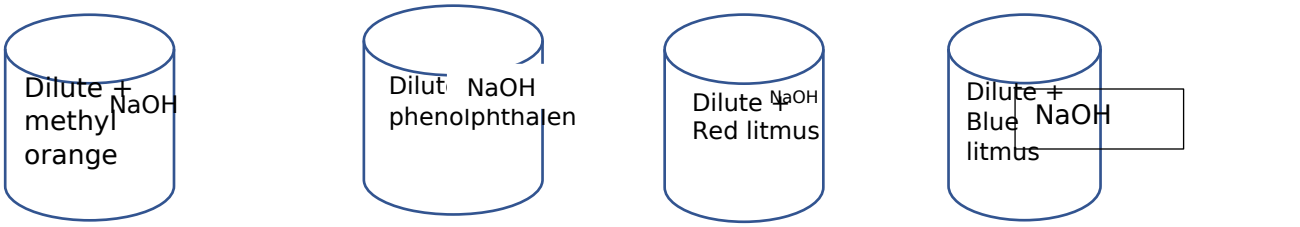
37. Acidic soil can be treated by one of the following to neutralize the soil's acidity.

A) CaO B) mgO C) NO_2 D) $NaCO_3$

38. In an experiment a boy accidently drink Hydrochloric acid (HCl) what should be taken to neutralize the acid.

A) H_2SO_4 B) HNO_3 C) $mg(OH)_2$ D) Na_2SO_4

39. If you want to investigate the properties of acids as shown in the figure below.



Test tube I Test tube II Test tube III Test tube IV

What will be the possible observation in the test tubes?

A) In I, the color of methyl orange will be colorless.

B) In II, the color of phenolphthalein will be changed to Red

C) In IV, the color of blue litmus will be changed to Red

D) In III, the color of red litmus will be changed to blue

40. Among the following reaction which one is a direct synthesis method?

A) $CaCO_3 \xrightarrow{heat} CaO + CO_2$ B) $ZnO + 2HCl \rightarrow ZnCl_2 + H_2O$

B) $2mg + O_2 \rightarrow 2mgO$ D) $HNO_3 + LiOH \rightarrow LiNO_3 + H_2O$

41. The anion (negative ion) of a salt derived from

A) water B) base C) oxide D) Acid

42. The chemical formula of a salt potassium nitrite is

A) HNO_3 B) $CaNO_3$ C) kNO_3 D) KNO_2

43. The salt that is used in our diet is called.

A) $CaCO_3$ B) NaCl C) $NaHCO_3$ D) KNO_3

44. The name of a salt $FeBr_3$

A) Iron Bromide B) Iron (II) Bromide C) Iron (III) bromide D) bromo Iron (III)

45. An acid which is used to cure bee stings is

A) Vinegar B) alcohol C) citric acid D) Nitric acid

46. Which layer of hair provide strength, color and texture of hair fiber

A) medulla B) cuticle C) cortex D) Dermis

47. Which function performed by integumentary systems?

A) Digestion & respiration C) reproduction & respiration

B) Protection & execration D) breathing & digestion

48. Which statement is incorrect about skin?

A) epidermis is made up of dead cells C) hypodermis protect us from loss of excess heat

B) dermis are responsible for thermo regulation D) dermis protect us from uv light.

49. Part of the nail that is not visible, located under neath is

A) nail plate B) lunula C) the matrix D) nail bed

50. A glands in female functioning to produce breast milk is

A) cerruminous B) mammary C) sebaceous D) sudoriferous

51. A gland that releases their secretion through ducts or openings is called.

A) Exocrine gland B) Endocrine gland C) internal glands D) External glands

52. Which statement is incorrect about functions of integumentary systems?

A) The skin contain many number of sense organs

B) Glands in the body used to secret different chemical

C) The primarily function of human skin is to insulate human body

D) Skin used to produce pigment & vitamin D

53. A skin disease commonly located on faces, neeks, shoulders, chest and upper back is
A) Marfan syndrome B) Acne C) Hives D) warts

54. A reaction to certain proteins found in natural rubber is
A) chike pox B) latex allergy C) Actinic keratosis D) Blister

55. Skin disease caused by the following conditions except one
A) viral infections B) skin cancers C) nerve disorder D) parasites

56. Which one of the following is not function of muscles?
A) pumping blood B) digestion C) recognition D) circulation

57. Which one of the following statement describes smooth muscles correctly?
A) It pumps blood using involuntary action C) Acts involuntarily and cannot be consciously controlled
B) Founds attached to the end bone D) contracting the muscles causes movement of those bones

58. Which muscles are auto rhythmic, contracting without hormonal control
A) Cardiac muscle B) smooth muscle C) skeletal muscle D) non- cardiac muscle

59. The disease warts caused by
A) HPV B) HIV C) varicella – zoster virus D) herpes simplex virus

60. The proportion of muscles account according to our weight is
A) 50% B) 40% C) 20% D) 80%

Good luck!`