

➤ **Choose the best answer from the given alternatives**

1. Which one of the following is true about indigenous methods of measurements?
 - A. They have standards to measure amount or quantities
 - B. They are practiced locally for along period of time
 - C. They are practiced by scientific community
 - D. Both A and C are true
2. By indigenous methods of measurement the distance between two point is measured by _____.

A. Cubit	B. Feresula	C. Shadow of tree	D. Meter
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3. The amount of matter present in a substance is _____.

A. Mass	B. length	C. Time	D. Volume
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4. 17 kilogram of pepper and coffee measured by _____.

A. auntal	B. Jog	C. Feresula	D. Weqet
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5. Which one of the following is derived physical quantities?

A. Length	B. Area	C. speed	D. density
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6. Base quantities are _____.

A. Calculated from other quantities	C. measured directly
B. Derived quantities	D. none
7. Which quantitie is calculated from other quantities

A. Speed	B. mass	C. length	D. temperature
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8. The quantitie equivalent with 0.6km is

A. 600m	B. 0.006m	C. 60m	D. 6000 mm
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9. 200 meters is equivalent with _____.

A. 2 km	B. 20000 cm	C. 0.02 km	D. 200 mm
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10. 1:30 is equivalent with _____.

A. 90second	B. 3600 second	C. 90 min	D. 120 min
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11. An object with 10kg mass is measured by three students as listed below?

Student 1: 9.9k 9.8kg 9.7kg

Student 2: 8kg 7kg 6kg

Student 3: 10kg 9.9kg 9.95kg

Which student measurement is the most accurate measurement

- | | | |
|--------------|--------------|--------------|
| A. Student 1 | B. student 2 | C. student 3 |
|--------------|--------------|--------------|
12. From the above information which student measurement is neither accurate nor precise

A. Student 1	B. Student 3	C. student 2	D. Both student 2 and student 3
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 13. Which student measurements are both accurate and precise?

A. Student 1 and student 2	C. student 1 and students 3
B. Student 2 and student 3	D. only student 1
 14. What is the sequence of scientific method

A. Ask questions → perform background research → establish hypothesis → test hypothesis → analyze the result → communicating result	B. Perform back ground research → Establish hypothesis → test hypothesis → analyze the result → test hypothesis → perform background research
C. Establish hypothesis → ask question → test hypothesis → perform back ground research → analyze the result → communicating result.	
 15. If a chemist needs to work scientific investigation about the cause and effects of water pollutants. The first step for the chemist to work his scientific investigation is _____,

A. Conducting back ground research	C. formulating tentative explanation
B. Observation	D. conducting experiment
 16. Which one of the following is correctly matched?

A. Democritus → continuous view of matter	B. Aristotle → disceret view of matter
C. Democritus → matter consists atoms	D. Aristotle → matter is finitely divisible

17. Which part of an atom is surrounded by electrons
 A. Shell B. nucleus C. proton D. neutron
18. Which two subatomic particles can have approximately the same mass?
 A. Proton and electron C. neutron and electron
 B. Proton and neutron D. proton and nucleus
19. The heavier part of an atom is _____
 A. Shell B. electron C. nucleus D. proton
20. For the atomic representation ${}^{23}_{11}\text{Na}$, what is the atomic mass of the element sodium?
 A. 11 B. 23 C. 12 D. 35
21. Which one of the following is true?
 A. All atoms consist the three subatomic particles
 B. All atoms consist the same number of subatomic particles
 C. All atoms consist two types of subatomic particles in their nucleus
 D. All atoms consist shell which is occupied by proton
22. For the atomic representation ${}^{106}_{46}\text{Pd}^{+2}$ what is the number of protons, electrons and neutrons, respectively.
 A. 46,44,60 B. 60,44,46 C. 106,46,60 D. 46,44,106
23. Which one of the following is monatomic molecule?
 A. Helium B. hydrogen C. hydroxide D. nitrogen
24. Which one of the following is different from others?
 A. HCl B. CO₂ C. NH₃ D. Ne
25. The first synthetic organic compound is
 A. NH₄Cl B. AgCNO C. (NH₂)₂CO D. AgCl
26. All of the given statements are false except
 A. All organic compounds found in living things
 B. All carbon containing compounds are organic compounds
 C. All inorganic compound consists carbon in their composition
 D. All
27. The general formula of alkane is _____.
 A. C_nH_{2n} B. C_nH_{2n-2} C. C_nH_{2n+2} D. C_nH_{2n+1}
28. The molecular formula of pentane is _____.
 A. C₅H₁₀ B. C₅H₁₂ C. C₅H₈ D. C₇H₁₆
29. What is the formula of an alkene with nine carbon atoms?
 A. C₉H₂₀ B. C₈H₁₂ C. C₉H₁₈ D. C₉H₉
30. The chemical formula of Heptyne is _____.
 A. C₅H₈ B. C₅H₁₀ C. C₂H₁₂ D. C₂H₁₄
31. What are the hydrocarbons which comes before and after for C₈H₁₆ in a homologous series.
 A. C₇H₁₄ and C₉H₁₈ C. C₇H₁₂ and C₉H₁₆
 B. C₂H₁₆ and C₉H₂₀ D. C₈H₁₈ and C₈H₁₄
32. What is the name of C₆H₁₀?
 A. Pentyne B. Hexene C. Hexyne D. Heptyne
33. Which one of the following is mismatched with their uses
 A. Formalin – to preserve biological specimen
 B. Ethyne – used for cutting and welding of steel
 C. Methane – used as a fuel
 D. Acetic acid – used for alcoholic beverages
34. Which one of the following is 'True' about oxides
 A. All oxides are binary compound
 B. Metallic oxides produce acid by reacting with water
 C. Non – metallic oxides produce base by – reacting with water
 D. All oxides are the product of metallic element and oxygen
35. Which one of the following is metallic oxide
 A. P₂O₅ B. N₂O₄ C. Al₂O₃ D. SO₃
36. Which one of the following compound form base by reacting with water
 A. HCl B. CO₂ C. Na₂O D. N₂O₅

37. A substance that can donate a proton to another substance is _____.
 A. Acid B. base C. oxide D. Salt
38. What is the result for the reaction $K_2O + CO_2 \rightarrow$ _____
 A. K_2CO_2 B. K_2CO_3 C. KOH D. $K_2CO_3 + H_2O$
39. In the chemical reaction $CaO + H_2SO_4$ the products are
 A. $Ca(OH)_2$ and H_2SO_4 C. $CaSO_4$ and H_2
 B. $CaSO_4$ and H_2O D. CaO and SO_3
40. In the chemical reaction $SO_3 + H_2O$, the resulting compound is _____
 A. H_2SO_3 B. H_2SO_4 C. SO_4 and H_2 D. H_2SO_2
41. What is the basic anhydride of KOH?
 A. KO B. K_2O C. K_2O_2 D. KO_2
42. What is the acid anhydride of H_3PO_4
 A. P_2O_3 B. P_2O_5 C. P_4P_6 D. PP_3
43. Which one of the following is mis matched with its name?
 A. H_3BO_3 – boric acid C. H_2CrO_4 – chromic acid
 B. HNO_3 – Nitrous acid D. H_2SO_3 – sulphurous acid
44. An acid with unknown compound form salt, carbon dioxide and water, the unknown compound is _____
 A. Base B. basic oxide C. acidic oxide D. carbonate
45. What are the products in $2Li + H_2SO_4 \rightarrow$ _____ + _____
 A. $LiSO_4$ and H_2 C. Li_2SO_4 and H_2
 B. Li_2SO_4 and H_2O D. Li_2SO_3 and H_2O
46. If acid and base spilled in to your eye, your measure is _____
 A. Washing by weak base and weak acid
 B. Washing thoroughly by using plenty of water
 C. Drinking 1-2% dilute solution of acetic acid if base is spilled
 D. Washing by using soap if acid is spilled
47. The acidic soils can be neutralized by the given compounds except _____.
 A. $CaCO_3$ B. CaO C. $CaOH$ D. H_2CO_3
48. Which one of the following is true about salts?
 A. Salts are compounds consisting of the positive ion of acid and the negative ion of base
 B. All salts are synthesized by neutralization reaction
 C. The positive ion of salts are only metal ion or ammonium ion
 D. Salts are used for only making foods
49. What are the acid and base which results calcium sulphate?
 A. Sulphurous acid and calcium hydroxide
 B. Sulphuric acid and calcium hydroxide
 C. Sulphurous acid and calcium oxide
 D. Hydrosulphuric acid calcium hydroxide
50. What is the salt produced from $2HNO_3 + Mg(OH)_2 \rightarrow$
 A. $MgNO_3$ B. $Mg(NO_3)_2$ C. $Mg(NO_2)_2$ D. $MgNO_2$
51. What is the use of sodium bicarbonate?
 A. Used for baking industries
 B. Used in personal care products
 C. Used as a water softner
 D. Used to reduce acidity in the stomach
 E. All
52. Which one of the following salt is used as fertilizers?
 A. $CaCO_3$ B. $NaHCO_3$ C. $(NH_4)_2SO_4$ D. $NaCl$
53. Which body system serves to protect and maintain the internal body parts?
 A. Integumentary system C. digestive system
 B. Muscular system D. respiratory system
54. Which one of the following is false?
 A. Skin is the outer layer of the body.
 B. Skin is the largest external organ of the body.
 C. Epidermis is made up of living cells.
 D. Dermis is the middle layer of the skin.

55. The layer of the skin, Which contains fatty tissue that used to store energy is _____.
 A. Epidermis B. dermis C. hypodermis D. middle layer
56. Upper layer of the skin is useful for _____.
 A. Thermoregulation C. consising hair follicles
 B. An insulation layer D. reduce excess water loss
57. The hair shaft has _____ layers
 A. Two B. three C. four D. only one
58. The outer layer of hair shaft is _____.
 A. Cortex B. medulla C. cuticle D. matrix
59. Which one of the following is false about cortex hair shaft layer?
 A. Provide strength, color and texture for the hair shaft
 B. It is the middle layer of hair shaft
 C. It is the deepest layer of hair shaft
 D. None
60. The skin that lies beneath to nail plate is _____.
 A. Lunula B. Matrix C. nail fold D. nail plate
61. The part of the nail located underneath the cuticle is _____.
 A. Lunula B. nail plate C. cuticle D. matrix
62. An organ that make one or more substance is _____.
 A. Gland B. skin C. brain D. None
63. The gland which release oil in to the hair follicle is _____.
 A. Sebaceous glands C. sudoriferous gland
 B. Ceruminous glands D. None
64. Which substance is secreted in sudoriferous gland?
 A. Oil B. wax C. milk D. sweat
65. Which one of the following is not correctly matched with their function?
 A. Skin – producing pigment and vitamin D
 B. Hair – barrier between external cold air and skin
 C. Gland – secrect different hemicals
 D. Nail – used to regulate body temperature
66. Which type of muscle found in insides of vital organ
 A. Smooth muscle C. skeletal muscle
 B. Cardic muscle D. None
67. Chewing , facial expression and drinking taken place in our body with the support of _____.
 _____.
 A. Cardiac muscle C. skeletal muscle
 B. Smooth muscle D. None
68. What is extensibility of muscles?
 A. The ability of muscle to forcefully shorten
 B. The power of muscle to be stretched
 C. The quality of being elastic
 D. The ability of muscles to give response
69. The injury to amuscle or atendon in the fibrous tissue is _____.
 A. Muscle strain B. muscle dystrophy C. Leukemia D. ostopenia
70. Which muscle disorder commonly occur in the lower back and at the back of the thigh?
 A. Fracture B. pulled muscle strains C. osteoporosis D. none