

RAVI MATHS TUITION CENTER, CHENNAI-82. WHATSAPP.- 8056206308

MCQ 1

8th Standard

Science

Multiple Choice Question

219 x 1 = 219

1) Which one the following system of units is the British System of unit?

- (a) CGS (b) MKS (c) FPS (d) SI

2) Electric current belongs to \_\_\_\_\_ quantities

- (a) base (b) supplementary (c) derived (d) professional

3) SI unit of temperature is

- (a) celsius (b) fahrenheit (c) kelvin (d) ampere

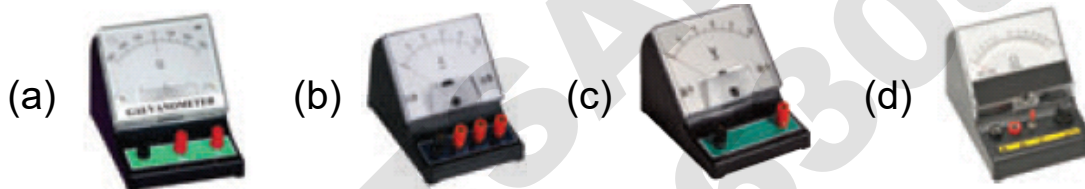
4) Amount of substance is

- (a) directly proportional to the number of atoms  
(b) inversely proportional to the number of atoms  
(c) directly proportional to the square of number of atoms  
(d) inversely proportional to the square of number of atoms

5) Luminous intensity is the intensity of

- (a) Laser light (b) UV light (c) visible light (d) IR light

6) Which one of the following devices is used to measure electric current



7) SI unit stands for

- (a) International system of units (b) Integrated System of units  
(c) International symbol of units (d) Integrated symbol of units

8) Closeness of two or more measured values is called as

- (a) accuracy (b) precision (c) error (d) approximation





9) Quantities other than base quantities are called as

- (a) supplementary quantities (b) derived quantities  
(c) professional quantities (d) energy quantities

10) Which of the following statements about approximation is wrong?

- (a) Approximation gives accurate value  
(b) Approximation simplifies the calculation

- (c) Approximation is very useful when little information is available  
(d) Approximation gives the nearest value only
- 11) If we apply a force against the direction of motion of a body, then the body will  
(a) stop moving (b) move with an increased speed  
(c) move with a decreased speed (d) move in a different direction
- 12) Pressure exerted by a liquid is increased by  
(a) the density of the liquid (b) the height of the liquid column  
(c) Both (a) & (b) (d) None of the above
- 13) Unit of pressure is  
(a) pascal (b)  $\text{N m}^{-2}$  (c) poise (d) Both (a) & (b)
- 14) The value of the atmospheric pressure at sea level is  
(a) 76 cm of mercury column (b) 760 cm of mercury column  
(c) 176 cm of mercury column (d) 7.6 cm of mercury column
- 15) Pascal's law is used in  
(a) hydraulic lift (b) brake system (c) pressing heavy bundles  
(d) All the above
- 16) Which of the following liquids has more viscosity?  
(a) Grease (b) Water (c) Coconut oil (d) Ghee
- 17) The unit of viscosity is  
(a)  $\text{N m}^2$  (b) poise (c)  $\text{kg m s}^{-1}$  (d) no unit
- 18) Mirrors having a curved reflecting surface are called as  
(a) plane mirrors (b) spherical mirrors (c) simple mirrors  
(d) None of the above
- 19) The spherical mirror with a reflecting surface curved inward is called  
(a) convex mirror (b) concave mirror (c) curved mirror  
(d) None of the above
- 20) The centre of a sphere of which the reflecting surface of a spherical mirror is a part is called  
(a) pole (b) centre of curvature (c) radius of curvature (d) aperture
- 21) The spherical mirror used as a rear view mirror in the vehicle is  
(a) concave mirror (b) convex mirror (c) plane mirror  
(d) None of the above
- 22) The imaginary line passing through the centre of curvature and pole of a spherical mirror is called

- (a) centre of curvature (b) pole (c) principal axis (d) radius curvature
- 23) The distance from the pole to the focus is called  
 (a) Pole length (b) focal length (c) principal axis (d) None of the above
- 24) Focal length is equal to half of the  
 (a) centre of curvature (b) axis (c) radius of curvature  
 (d) None of the above
- 25) If the focal length of a spherical mirror is 10 cm, what is the value of its radius of curvature?  
 (a) 10 cm (b) 5 cm (c) 20 cm (d) 15 cm
- 26) If the image and object distance is same, then the object is placed at  
 (a) infinity (b) at F (c) between f and P (d) at C
- 27) The refractive index of water is  
 (a) 1.0 (b) 1.33 (c) 1.44 (d) 1.52
- 28) Matter is composed of  
 (a) atoms (b) molecules (c) ions (d) all of the above
- 29) The liquid metal used in thermometers is  
 (a) Copper (b) Mercury (c) Silver (d) Gold
- 30) The Pictorial symbol for water given by the alchemists was  
 (a)  (b)  (c)  (d) 
- 31) Which one of the element name not derived from planet?  
 (a) Plutonium (b) Neptunium (c) Uranium (d) Mercury
- 32) Symbol of Mercury is  
 (a) Ag (b) Hg (c) Au (d) Pb
- 33) A form of non-metal which has high ductility is  
 (a) nitrogen (b) oxygen (c) chlorine (d) carbon
- 34) Which one of metal possess low tensile strength?  
 (a) Silver (b) Copper (c) Zinc (d) Aluminium
- 35) The property which allows metals to be hammered into their sheets is \_\_\_\_\_  
 (a) ductility (b) malleability (c) conductivity (d) tensile strength
- 36) The non-metal which conduct current is  
 (a) carbon (b) oxygen (c) aluminium (d) sulphur
- 37) Pencil lead contains



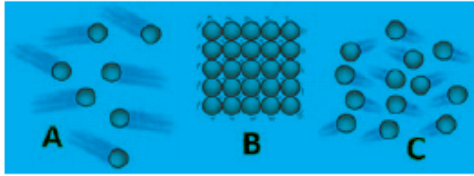
(a) graphite (b) diamond (c) aluminium (d) sulphur

38) Molecule \_\_\_\_\_ D. smallest unit of a substance

(a) 1 - A, 2 - C, 3 - B, 4 - D (b) 1 - C, 2 - A, 3 - B, 4 - D

(c) 1 - D, 2 - C, 3 - B, 4 - A (d) 1 - B, 2 - C, 3 - A, 4 - D

39) Identify the state of matter based on the arrangement of the molecules.



(a) A - gas, B - solid, C - liquid (b) A - Liquid, B - solid, C - Gas

(c) A - gas, B - solid, C - liquid (d) A - Liquid, B - Gas, C - Solid

40) Burning of paper is a \_\_\_\_\_ change.

(a) Physical (b) chemical (c) physical & chemical (d) neutral

41) The burning of matchstick is an example for chemical reaction based on \_\_\_\_\_

(a) Contact (b) electricity (c) light (d) catalyst

42) \_\_\_\_\_ metal undergoes rusting.

(a) tin (b) sodium (c) copper (d) iron

43) The pigment responsible for browning of apples is \_\_\_\_\_.

(a) Hydrated iron (II) oxide (b) melanin (c) starch (d) ozone

44) Brine is a concentrated solution of \_\_\_\_\_.

(a) Sodium sulphate (b) sodium chloride (c) calcium chloride  
(d) sodium bromide

45) Limestone contains \_\_\_\_\_ mainly.

(a) Calcium chloride (b) calcium carbonate (c) calcium nitrate  
(d) calcium sulphate

46) Which of the following factor induces electrolysis?

(a) Heat (b) light (c) electricity (d) catalysis

47) In Haber's process of producing ammonia \_\_\_\_\_ is used as a catalyst.

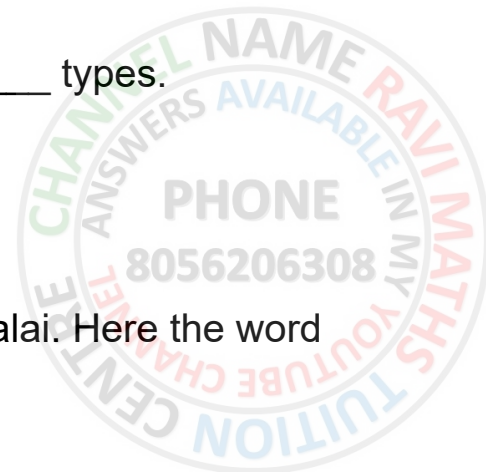
(a) Nitrogen (b) hydrogen (c) iron (d) nickel

48) Dissolved gases like sulphur dioxide, nitrogen oxides in rain water causes \_\_\_\_\_

(a) Acid rain (b) base rain (c) heavy rain (d) neutral rain

49) \_\_\_\_\_ is responsible for Global warming.

- (a) Carbon di oxide (b) methane (c) chlorofluoro carbons  
(d) all the above
- 50) Micro organisms are measured in \_\_\_\_\_.  
(a) cm (b) mm (c) micron (d) meter
- 51) \_\_\_\_\_ shows both living and nonliving characteristics.  
(a) Protozoa (b) virus (c) bacteria (d) Fungi
- 52) \_\_\_\_\_ is a prokaryotic micro organisms.  
(a) Virus (b) algae (c) fungi (d) bacteria
- 53) Based on shape, the bacteria are classified into \_\_\_\_\_ types.  
(a) 2 (b) 3 (c) 4 (d) 5
- 54) The plant body of algae is called as \_\_\_\_\_.  
(a) stem (b) thallus (c) leaf (d) root
- 55) Solanum trilobatum is the binomial name of Thoothuvalai. Here the word 'Solanum' refers to  
(a) Species (b) Genus (c) Class (d) Orders
- 56) \_\_\_\_\_ is an example for colonial form of algae.  
(a) Oscillatoria (b) Nostac (c) Volvox (d) Chlorella
- 57) Floridian starch is a reserve food material of \_\_\_\_\_.  
(a) Chloroplyceae (b) Phaeophyceae (c) Rhodophyceae  
(d) Cyanophyceae
- 58) The edible mushroom is \_\_\_\_\_.  
(a) Polyporus (b) Agaricus (c) Pennicillium (d) Aspergillus
- 59) Soil erosion is prevented by \_\_\_\_\_ plants.  
(a) Algae (b) Fungi (c) Bryophytes (d) Pteridophytes
- 60) The first vascular cryptogams in land plants are \_\_\_\_\_.  
(a) Bryophytes (b) Pteridophytes (c) Gymnosperm (d) Angiosperm
- 61) The well-developed sporophytic plant body is seen in  
(a) Bryophytes (b) Pteridophytes (c) Gymnosperms (d) Angiosperms
- 62) Binominal Nomenclature was first introduced in the year of \_\_\_\_\_.  
(a) 1970 (b) 1975 (c) 1978 (d) 1623
- 63) Penicillin is an antibiotic, which is extracted from \_\_\_\_\_.  
(a) Algae (b) Fungi (c) Bryophytes (d) Pteridophytes



- 64) \_\_\_\_\_ is tough and thick white sheath that protect the inner parts of the eye.  
(a) sclera (b) conjunctiva (c) cornea (d) iris
- 65) Maintenance of constant internal environment of the body is known as \_\_\_\_\_  
(a) Homeostasis (b) Homeophytes (c) Homeokinesis  
(d) Homeophilics
- 66) In the absence of oxygen, glucose is broken down in to \_\_\_\_\_.  
(a) Lactic acid (b) Citric acid (c) Acetic acid (d) Nitric acid
- 67) \_\_\_\_\_ cells are specialised cells that can be transformed into any kind of cells.  
(a) Nerve (b) Stem (c) Heart (d) Bone
- 68) The process of air passing in and out the lungs is called \_\_\_\_\_.  
(a) Inhalation (b) Exhalation (c) Breathing (d) None of these
- 69) Osmosis is the movement of water molecules from a \_\_\_\_\_.  
(a) Higher concentration to a region of lower concentration.  
(b) Lower concentration to a region of higher concentration.  
(c) Both of these (d) None of these
- 70) The erythrocyte is placed in \_\_\_\_\_ solution which has lesser concentration of solutes and greater concentration of water than in the cytoplasm.  
(a) Hypotonic (b) Hypertonic (c) Neutral (d) Acidic
- 71) Who is the father of computer?  
(a) Martin Luther King (b) Graham Bell (c) Charlie Chaplin  
(d) Charles Babbage
- 72) Which one of the following is an output device?  
(a) Mouse (b) Keyboard (c) Speaker (d) Pendrive
- 73) Which one of the following is an input device?  
(a) Speaker (b) Keyboard (c) Monitor (d) Printer
- 74) Pen drive is \_\_\_\_\_ device.  
(a) Output (b) Input (c) Storage (d) Connecting cable
- 75) Fifth generation computer has \_\_\_\_\_ Intelligence.  
(a) Transistors (b) Integrated Circuits (c) Microprocessor  
(d) Artificial Intelligence

- 76) The estimated number of species on the earth is \_\_\_\_\_ million  
 (a) 8.7 (b) 100 (c) 120 (d) 150
- 77) \_\_\_\_\_ is the earliest system of classification in plants.  
 (a) Natural system of classification (b) Artificial system of classification  
 (c) Phylogenetic system of classification  
 (d) Modern system of classification
- 78) \_\_\_\_\_ is the giant kelp  
 (a) Spirogyra (b) Volvox (c) Macrocystis (d) Chlorella
- 79) \_\_\_\_\_ is used as a food for domestic animals  
 (a) Gelidium (b) Ascophyllum (c) Laminaria & Ascophyllum
- 80) Cercospora personata causes \_\_\_\_\_  
 (a) Wilt disease (b) Red rot of sugar cane (c) Blast disease  
 (d) Tikka disease
- 81) \_\_\_\_\_ make up organs  
 (a) Cells (b) Tissues (c) Organ system (d) None of the above
- 82) \_\_\_\_\_ are called as building blocks of life  
 (a) Cells (b) nucleus (c) Cell organelles (d) tissues
- 83) \_\_\_\_\_ tissues for conduction of nerve impulses  
 (a) Epithelial (b) Muscular (c) Nervous (d) Supporting
- 84) \_\_\_\_\_ is a thin transparent membrane that is spread across the sclera  
 (a) Cornea (b) Conjunctiva (c) Retina (d) Ciliary body
- 85) \_\_\_\_\_ million alveoli located at the end of branchial tubes  
 (a) 480 (b) 300 (c) 100 (d) 200
- 86) First generation computer has \_\_\_\_\_  
 (a) Microprocessor (b) Integrated circuits (c) Artificial Intelligence  
 (d) Vacuum tubes
- 87) When was the first computer introduced?  
 (a) 1980 (b) 1947 (c) 1946 (d) 1985
- 88) Pick out the odd one  
 (a) Speaker (b) Printer (c) Keyboard (d) Monitor
- 89) Example of Application program  
 (a) Drawing tools (b) Graphics Card (c) Cabinet (d) RAM
- 90) Which of the following component are used in fourth generation?

- (a) Vacuum tubes (b) Microprocessor (c) Integrated circuits  
(d) Transistor
- 91) The smallest particle of an element is \_\_\_\_\_  
(a) atom (b) molecule (c) Compound (d) element
- 92) Which of the following element is named after a scientist?  
(a) Americium (b) Mercury (c) Nobelium (d) Neptunium\_
- 93) Which of the following does not possess metallic lustre?  
(a) Copper (b) Calcium' (c) aluminium (d) gold
- 94) Compound obtained from living sources such as plants and animals are called  
(a) In Organic Compounds (b) Organic Compounds  
(c) Synthetic Compounds (d) Artificial Compounds
- 95) The compound used for the sterilisation of drinking water is \_\_\_\_\_  
(a) baking soda (b) washing soda (c) quick lime (d) bleaching powder.
- 96) \_\_\_\_\_ is a ball-shaped bacteria.  
(a) Bacilli (b) Spinilla (c) Cocci (d) Vibrio
- 97) \_\_\_\_\_ is an example for Lophotrichous  
(a) vibrio (b) Pseudomonas (c) Rhodospirillum (d) Corny bacterium
- 98) Yeast reproduces by \_\_\_\_\_  
(a) Fragmentation (b) Budding (c) Sporulation (d) Sexual method
- 99) Plasmodium belongs to \_\_\_\_\_ type of protozoan.  
(a) Ciliates (b) Flagellate (c) Pseudopods (d) sporozoans
- 100) \_\_\_\_\_ is an acid - loving bacteria  
(a) Lactobacillus acidophilus (b) Pseudomonas (c) Xanthomonas  
(d) Vibrio cholera
- 101) Rusting of iron is a \_\_\_\_\_ change.  
(a) physical (b) chemical (c) physical and chemical (d) neutral
- 102) Decomposition of limestone is an example for chemical reaction based on \_\_\_\_\_  
(a) contact (b) electricity (c) light (d) heat
- 103) The chemical reactions carried out by the passage of electricity is called.  
(a) Rusting (b) Thermolysis (c) Electrolysis (d) Photolysis
- 104) Enzymes and yeasts are called



- (a) catalysts (b) bio catalysts (c) chemical catalysts  
(d) physical catalysts
- 105) The brown colour of a cut apple is due to  
(a) rusting (b) rancidity (c) browning (d) fermentation
- 106) \_\_\_\_\_ form the perfect image of an object  
(a) Spherical mirrors (b) Parabolic mirrors (c) Plane mirrors  
(d) Cylindrical mirrors
- 107) Mirrors which magnify the object placed close to them.  
(a) Convex mirror (b) Concave mirror (c) Plane mirror  
(d) ellipsoid mirror
- 108) In which mirror the following statement is labeled?  
(a) Convex mirror (b) Concave mirror (c) Plane mirror  
(d) Spherical mirror
- 109) An imaginary line perpendicular to the reflecting surface is called  
(a) imaginary line (b) curved line (c) Perpendicular line (d) normal
- 110) When the angle of inclination decreases the number of images formed  
\_\_\_\_\_  
(a) increase (b) decreases (c) remain same (d) none of the above
- 111) Normal temperature of the human body is between  
(a)  $98.4^{\circ}\text{F}$  and  $99.6^{\circ}\text{F}$  (b)  $98.4^{\circ}\text{F}$  and  $98.6^{\circ}\text{F}$  (c)  $97.4^{\circ}\text{F}$  and  $98.6^{\circ}\text{F}$   
(d)  $97.6^{\circ}\text{F}$  and  $99.6^{\circ}\text{F}$
- 112) \_\_\_\_\_ can be used as memory or storage element in the computers.  
(a) Conduitors (b) Insulators (c) Superconduitors (d) Semiconductors
- 113) \_\_\_\_\_ is the measure of the perceived power of light.  
(a) Luminous flux (b) Luminous power (c) Luminous Intensity  
(d) Both a and b
- 114) Electric current (I) = \_\_\_\_\_  
(a)  $Qt$  (b)  $t/Q$  (c)  $Q/t$  (d)  $Q/t^2$
- 115) The unit of charge is \_\_\_\_\_  
(a) Coulomb (b) Ampere (c) Radian (d) Steradian
- 116) \_\_\_\_\_ is the force acting perpendicularly on any given surface area of a body  
(a) Pressure (b) Thrust (c) Density (d) Volume

- 117) Even if we tilt the barometric tube at various angles, the level of mercury will \_\_\_\_\_  
(a) Not vary (b) increases (c) decreases (d) change
- 118) Rain drops are spherical in nature because of \_\_\_\_\_  
(a) Frictional force (b) Buoyant force (c) Surface tension  
(d) Viscous force
- 119) The unit for surface tension is \_\_\_\_\_  
(a) Nm (b)  $N^{-1}m$  (c)  $N^{-1}m^{-1}$  (d)  $Nm^{-1}$
- 120) If the area of contact is greater, then the \_\_\_\_\_ will be greater.  
(a) Pressure (b) Temperature (c) Friction (d) Force
- 121) Heat is a form of \_\_\_\_\_.  
(a) electrical energy (b) gravitational energy (c) thermal energy  
(d) None of these
- 122) If you apply some heat energy to a substance, which of the following can take place in it?  
(a) Expansion (b) Increase in temperature (c) Change of state  
(d) All the above
- 123) Which of the following substances will absorb more heat energy?  
(a) Solid (b) Liquid (c) Gas (d) All the above
- 124) If you apply equal amount of heat to a solid, liquid and gas individually, which of the following will have more expansion?  
(a) Solid (b) Liquid (c) Gas (d) All of them
- 125) The process of converting a liquid into a solid is called \_\_\_\_\_.  
(a) sublimation (b) condensation (c) freezing (d) deposition
- 126) Conduction is the heat transfer which takes place in a \_\_\_\_\_.  
(a) solid (b) liquid (c) gas (d) All of them
- 127) When an ebonite rod is rubbed with fur, the charge acquired by the fur is  
(a) negative (b) positive (c) partly positive and partly negative  
(d) None of these
- 128) The electrification of two different bodies on rubbing is because of the transfer of  
(a) neutrons (b) protons (c) electrons (d) protons and neutrons
- 129) Which of the following a simple circuit must have?  
(a) Energy Source, Battery, Load (b) Energy Source, Wire, Load

- (c) Energy Source, Wire, Switch (d) Battery, Wire, Switch
- 130) An electroscope has been charged by induction with the help of charged glassrod. The charge on the electroscope is
- (a) negative (b) positive (c) both positive and negative  
(d) None of the above
- 131) Fuse is
- (a) a switch (b) a wire with low resistance (c) a wire with high resistance  
(d) a protective device for breaking an electric circuit
- 132) Which of the following is true about oxygen?
- (a) Completely burning gas (b) Partially burning gas  
(c) Doesn't support burning (d) Supports burning
- 133) Aerated water contains
- (a) air (b) oxygen (c) carbon dioxide (d) nitrogen
- 134) Solvay process is a method to manufacture
- (a) lime water (b) aerated water (c) distilled water  
(d) sodium carbonate
- 135) Carbon dioxide with water changes
- (a) blue litmus to red (b) red litmus to blue (c) blue litmus to yellow  
(d) doesn't react with litmus
- 136) Which of the following is known as azote?
- (a) Oxygen (b) Nitrogen (c) Sulphur (d) Carbon dioxide
- 137) The same proportion of carbon and oxygen in the carbon dioxide obtained from different sources proves the law of \_\_\_\_\_
- (a) reciprocal proportion (b) definite proportion (c) multiple proportion  
(d) conservation of mass
- 138) Cathode rays are made up of
- (a) neutral particles (b) positively charged particles  
(c) negatively charged particles (d) None of the above
- 139) In water, hydrogen and oxygen are combined in the ratio of \_\_\_\_\_ by mass.
- (a) 1:8 (b) 8:1 (c) 2:3 (d) 1:3
- 140) Which of the following statements made by Dalton has not undergone any change?
- (a) Atoms cannot be broken.



- (b) Atoms combine in small, whole numbers to form compounds.  
 (c) Elements are made up of atoms. (d) All atoms of an elements are alike
- 141) In all atoms of an element
- (a) the atomic and the mass number are same.  
 (b) the mass number is same and the atomic number is different  
 (c) the atomic number is same and the mass number is different  
 (d) both atomic and mass numbers may vary.
- 142) Which of the following parts of our body help us in movement?  
 (i) Bones (ii) Skin (iii) Muscles (iv) Organs Choose the correct answer from the options below.
- (a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (iv) (d) (i) and (iv)
- 143) Which one of the following organisms lack muscles and skeleton for movement?
- (a) Dog (b) Snail (c) Earthworm (d) Human being
- 144) \_\_\_\_\_ joints are immovable.
- (a) Shoulder and arm (b) Knee and joint (c) Upper jaw and skull  
 (d) Lower jaw and upper jaw
- 145) Why do underwater divers wear fin-like flippers on their feet ?
- (a) To swim easily in water (b) To look like a fish.  
 (c) To walk on water surface  
 (d) To walk over the bottom of the sea (sea bed).
- 146) External ear (pinna )is supported by
- (a) bone (b) cartilage (c) tendon (d) capsule
- 147) Cockroach moves with the help of its
- (a) leg (b) bone (c) muscular foot (d) whole body
- 148) Which one of the following categories of vertebrae are correctly numbered.
- (a) Cervical-7 (b) Thoracic-10 (c) Lumbar - 4 (d) Sacral - 4
- 149) Adolescence is the period of life between \_\_\_\_\_ years of age.
- (a) 10 to 16 (b) 11 to 17 (c) 11 to 19 (d) 11 to 20
- 150) The period at which an organism attains sexual maturity is called \_\_\_\_\_
- (a) puberty (b) adolescence (c) growth (d) maturity
- 151) During puberty, the region below the waist become wider in \_\_\_\_\_
- (a) boys (b) girls (c) Both a and b (d) None of these

- 152) Adam's apple is the growth of the \_\_\_\_\_  
(a) pharynx (b) thyroid (c) larynx (d) parathyroid
- 153) Many adolescent boys and girls get pimples on face, due to the secretions of \_\_\_\_\_ gland.  
(a) sweat (b) sebaceous (c) sweat and sebaceous (d) None of these
- 154) The sperm is produced by \_\_\_\_\_  
(a) penis (b) ovary (c) uterus (d) testes
- 155) \_\_\_\_\_ are the chemical substances, secreted by endocrine glands.  
(a) Hormones (b) Enzymes (c) Proteins (d) Fatty acids
- 156) Androgen production is regulated by \_\_\_\_\_  
(a) GH hormone (b) LH hormone (c) TSH hormone  
(d) ACTH hormone
- 157) During menstruation, the progesterone level is \_\_\_\_\_  
(a) decreased (b) increased (c) ceased (d) normal
- 158) \_\_\_\_\_ intake needs to be increased to prevent osteoporosis in later life.  
(a) Potassium (b) Phosphorus (c) Iron (d) Calcium
- 159) Tux paint software is used to \_\_\_\_\_.  
(a) paint (b) program (c) scan (d) PDF
- 160) Which tool bar is used for drawing and editing controls in tux paint software?  
(a) Left Side: Toolbar (b) Right side: Toolbar (c) Middle: Tool bar  
(d) Bottom: Tool bar
- 161) What is the short cut key for undo option?  
(a) Ctrl + Z (b) Ctrl + R (c) Ctrl + Y (d) Ctrl + N
- 162) Tux Math software helps in learning the \_\_\_\_\_  
(a) painting (b) arithmetic (c) programming (d) graphics
- 163) In Tux Math, space cadet option is used for \_\_\_\_\_.  
(a) simple addition (b) division (c) drawing (d) multiplication
- 164) Sound waves travel very fast in  
(a) air (b) metals (c) vacuum (d) liquids
- 165) Which of the following are the characteristics of vibrations?  
i. Frequency  
ii. Time period

- iii. Pitch  
iv. Loudness  
(a) i and ii (b) ii and iii (c) iii and iv (d) i and iv
- 166) The amplitude of the sound wave decides its  
(a) speed (b) pitch (c) loudness (d) frequency
- 167) What kind of musical instrument is a sitar?  
(a) String instrument (b) Percussion instrument (c) Wind instrument  
(d) None of these
- 168) Find the odd one out.  
(a) Harmonium (b) Flute (c) Nadaswaram (d) Violin
- 169) Noise is produced by  
(a) vibrations with high frequency. (b) regular vibrations.  
(c) regular and periodic vibrations.  
(d) irregular and non-periodic vibrations.
- 170) The range of audible frequency for the human ear is  
(a) 2 Hz to 2000 Hz (b) 20 Hz to 2000 Hz (c) 20 Hz to 20000 Hz  
(d) 200 Hz to 20000 Hz
- 171) If the amplitude and frequency of a sound wave are increased, which of the following is true?  
(a) Loudness increases and pitch is higher.  
(b) Loudness increases and pitch is unchanged.  
(c) Loudness increases and pitch is lower.  
(d) Loudness decreases and pitch is lower.
- 172) A magnet attracts \_\_\_\_\_.  
(a) wooden materials (b) any metal (c) copper (d) iron and steel
- 173) One of the following is an example of a permanent magnet.  
(a) Electromagnet (b) Mumetal (c) Soft iron (d) Neodymium
- 174) The south pole of a bar magnet and the north pole of a U-shaped magnet will \_\_\_\_\_.  
(a) attract each other (b) repel each other  
(c) neither attract nor repel each other (d) None of the above
- 175) The shape of the Earth's magnetic field resembles that of an imaginary \_\_\_\_\_.  
(a) U-shaped magnet (b) straight conductor carrying current

- (c) solenoid coil (d) bar magnet
- 176) MRI stands for \_\_\_\_\_.
- (a) Magnetic Resonance Imaging (b) Magnetic Running Image  
(c) Magnetic Radio Imaging (d) Magnetic Radar Imaging
- 177) A compass is used for \_\_\_\_\_
- (a) plotting magnetic lines (b) detection of magnetic field (c) navigation  
(d) All of these
- 178) Which of the following is a celestial body?
- (a) Sun (b) Moon (c) Stars (d) All the above
- 179) Mangalyaan was sent to \_\_\_\_\_
- (a) Moon (b) Mars (c) Venus (d) Mercury
- 180) Chandrayaan - 1 was launched on
- (a) 22<sup>nd</sup> October 2008 (b) 8<sup>th</sup> November 2008 (c) 22<sup>nd</sup> July 2019  
(d) 22<sup>nd</sup> October 2019
- 181) \_\_\_\_\_ is called as Red planet.
- (a) Mercury (b) Venus (c) Earth (d) Mars
- 182) Which of the following is the working principle of Rockets?
- (a) Newton's first law (b) Newton's second law (c) Newton's third law  
(d) All the above
- 183) Cryogenic fuels are stored at
- (a) room temperature (b) low temperature (c) very low temperature  
(d) very high temperature
- 184) \_\_\_\_\_ was the first manned mission of NASA to go to the moon.
- (a) Apollo-5 (b) Apollo-8 (c) Apollo-10 (d) Apollo-11
- 185) Water changes to ice at
- (a) 0<sup>0</sup>C (b) 100<sup>0</sup>C (c) 102<sup>0</sup>C (d) 98<sup>0</sup>C
- 186) Solubility of carbon dioxide in water is high when the
- (a) pressure is low (b) pressure is high (c) temperature is high  
(d) None of the above
- 187) The gas collected at the cathode on electrolysis of water is
- (a) oxygen (b) hydrogen (c) nitrogen (d) carbon dioxide
- 188) Which of the following is a water pollutant?
- (a) Lead (b) Alum (c) Oxygen (d) Chlorine

- 189) Permanent hardness of water is due to the presence of \_\_\_\_\_  
(a) Sulphates and Chlorides (b) Dust particles  
(c) Carbonates and Bicarbonates (d) Other soluble particles
- 190) Acids are \_\_\_\_\_ in taste.  
(a) sour (b) sweet (c) bitter (d) salty
- 191) Aqueous solutions of \_\_\_\_\_ conduct electricity.  
(a) acid (b) base (c) salt (d) salt and base
- 192) In acidic solutions blue litmus changes into \_\_\_\_\_ colour.  
(a) blue (b) green (c) red (d) white
- 193) The base is a substance that gives \_\_\_\_\_ on dissolving in water.  
(a)  $\text{OH}^-$  (b)  $\text{H}^+$  (c)  $\text{OH}$  (d)  $\text{H}$
- 194) Sodium hydroxide is a \_\_\_\_\_  
(a) acid (b) base (c) oxide (d) alkali
- 195) Red ant sting contains \_\_\_\_\_  
(a) acetic acid (b) sulphuric acid (c) oxalic acid (d) formic acid
- 196) Magnesium hydroxides are used for treating \_\_\_\_\_  
(a) acidity (b) head pain (c) teeth decay (d) None of these
- 197) Acid mixed with base forms \_\_\_\_\_  
(a) salt and water (b) salt (c) water (d) No reaction
- 198) We brush our teeth with tooth paste because it is \_\_\_\_\_ in nature.  
(a) basic (b) acidic (c) basic and acidic (d) None of these
- 199) In basic solution turmeric indicator paper changes from yellow to \_\_\_\_\_  
(a) blue (b) green (c) yellow (d) red
- 200) The chemical mixed with LPG that helps in the detection of its leakage is \_\_\_\_\_  
(a) methanol (b) ethanol (c) camphor (d) mercapton
- 201) Which is known as syn gas?  
(a) Marsh gas (b) Water gas (c) Producer gas (d) Coal gas
- 202) The unit of calorific value of fuel is \_\_\_\_\_  
(a) kilo joule per mole (b) kilo joule per gram (c) kilo joule per kilo gram  
(d) joule per kilogram
- 203) \_\_\_\_\_ is the coal of superior quality.



- (a) Peat (b) Lignite (c) Bituminous (d) Anthracite
- 204) The main component of natural gas is \_\_\_\_\_  
 (a) methane (b) ethane (c) propane (d) butane
- 205) The process of placing seeds in the soil is called  
 (a) ploughing (b) sowing (c) crop production (d) crop rotation
- 206) Organism that control insects and pests of plant crops is  
 (a) bio-pesticides (b) bio-fertilizers (c) earthworms (d) neem leaves
- 207) The method in which water flows over the soil surface and allow it to infiltrate is  
 (a) irrigation (b) surface irrigation (c) springler irrigation  
 (d) drip irrigation
- 208) Effective microorganism preparation is not used in  
 (a) seed treatment (b) foliar spray (c) soil treatment (d) bio-predators
- 209) Which of the following is not present in Panchagavya?  
 (a) Cow dung (b) Cow's urine (c) Curd (d) Sugar
- 210) The plants found in a particular area are known as \_\_\_\_\_  
 (a) fauna (b) flora (c) endemic (d) rare
- 211) Deforestation means \_\_\_\_\_  
 (a) cleaning of forest (b) to grow plants (c) to look after plants  
 (d) None of these.
- 212) The Red Data Book gives a list of \_\_\_\_\_  
 (a) endemic species (b) extinct species (c) natural species  
 (d) None of these
- 213) Insitu conservation is \_\_\_\_\_  
 (a) off-site conservation (b) on-site conservation  
 (c) off-site conservation and on-site conservation (d) None of these
- 214) Wildlife Protection Act was implemented in \_\_\_\_\_  
 (a) 1986 (b) 1972 (c) 1973 (d) 1971
- 215) The Keyboard shortcut is used to copy the selected text  
 (a) Ctrl + C (b) Ctrl + V (c) Ctrl + X (d) Ctrl + A
- 216) The Keyboard shortcut is used to cut the selected text  
 (a) Ctrl + C (b) Ctrl + V (c) Ctrl + X (d) Ctrl + A
- 217) If the ruler is not displayed in the screen, \_\_\_\_\_ option is clicked.

- (a) View - > ruler (b) View - > task (c) File - > save (d) Edit - > paste
- 218) How many types of page orientation are there in Libre office Writer?
- (a) 1 (b) 2 (c) 3 (d) 4
- 219) The menu used to save the document is
- (a) File - > open (b) File - > print (c) File - > save (d) Edit - > close

True or False

74 x 1 = 74

220) SI units are metric system of units.

- (a) True (b) False

221) Temperature is a measure of total kinetic energy of the particles in a system.

- (a) True (b) False

222) In thermometers, freezing point of water is taken as the Upper Fixed Point.

- (a) True (b) False

223) One coulomb of charge flowing per minute is called 'ampere'.

- (a) True (b) False

224) Amount of substance gives the number of particles present in the substance.

- (a) True (b) False

225) Intensity of light from a candle is approximately equal to one 'candela'.

- (a) True (b) False

226) Angle formed at the top of a cone is an example of 'Plane Angle'.

- (a) True (b) False

227) Quartz clocks are used in GPS Devices.

- (a) True (b) False

228) Candela is used to express electric field intensity.

- (a) True (b) False

229) The number 4.582 can be rounded off as 4.58.

- (a) True (b) False

230) Force acting on a given area is called pressure.

- (a) True (b) False

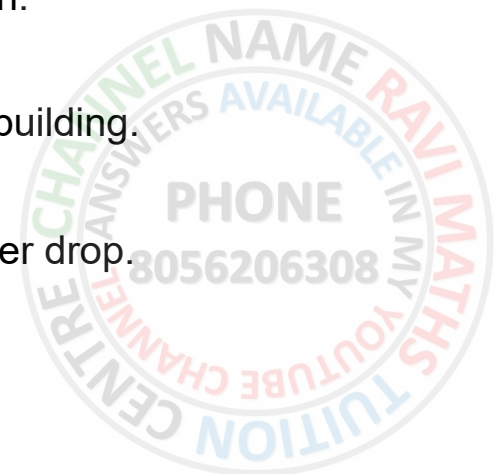
231) A moving body comes to rest due to friction alone.

- (a) True (b) False

232) A body will sink if the weight of the body is greater than the buoyant force.

- (a) True (b) False

- 233) One atmosphere is equivalent to 1,00,000 newton force acting on one square metre.  
(a) True (b) False
- 234) Rolling friction is slightly greater than the sliding friction.  
(a) True (b) False
- 235) Friction is the only reason for the loss of energy.  
(a) True (b) False
- 236) Liquid pressure decreases with the decrease of depth.  
(a) True (b) False
- 237) Using barometers, one can measure the height of a building.  
(a) True (b) False
- 238) Surface tension causes the spherical nature of a water drop.  
(a) True (b) False
- 239) Viscosity depends on the pressure of a liquid.  
(a) True (b) False
- 240) A chemical reaction is a temporary reaction.  
(a) True (b) False
- 241) Change in colour may take place during a chemical reaction.  
(a) True (b) False
- 242) Formation of slaked lime from quicklime is a endothermic reaction.  
(a) True (b) False
- 243) CFC is a pollutant.  
(a) True (b) False
- 244) Browning of some vegetables and fruits is due to tannin formation.  
(a) True (b) False
- 245) Diseases causing micro organisms are called pathogens.  
(a) True (b) False
- 246) Female anopheles mosquito is a carrier of dengue virus.  
(a) True (b) False
- 247) Chicken pox is a communicable disease.  
(a) True (b) False
- 248) Citrus canker is transmitted by insects.  
(a) True (b) False



249) Yeast is used in the large scale production of alcohol.

(a) True (b) False

250) In polypetalae, the petals are free.

(a) True (b) False

251) Binomial name should contains more than two words.

(a) True (b) False

252) Artificial system of classification is based on the vegetative characters of the plant.

(a) True (b) False

253) Cell wall of fungi is made up of chitin.

(a) True (b) False

254) Pinus is a closed seeded plant.

(a) True (b) False

255) All bryophytes are hydrophytes.

(a) True (b) False

256) Dicotyledons have well developed characters than the monocotyledons.

(a) True (b) False

257) Mosses are the well developed plant in bryophytes.

(a) True (b) False

258) The dominant phase of the bryophytes is sporophytes.

(a) True (b) False

259) The dominant phase of the pteridophytes is diploid(2n).

(a) True (b) False

260) Seeds of angiosperm are produced inside the ovary.

(a) True (b) False

261) In gymnosperms ovules are developed from the flowers.

(a) True (b) False

262) Heat given to a substance will increase its temperature

(a) True (b) False

263) Clinical thermometers are graduated in celsius scale

(a) True (b) False

264)  $1 \text{ radian} = 180^\circ/2\pi$

(a) True (b) False



265) True value is also an observed value

(a) True (b) False

266) Precision is the process of finding the solution by means of estimation

(a) True (b) False

267) Frictional force acts always along direction of the moving body

(a) True (b) False

268) Friction is called as necessary evil

(a) True (b) False

269) Force is an action of push or pull

(a) True (b) False

270) Atmospheric pressure increases with the altitude from the surface of the earth

(a) True (b) False

271) A knot in a thread is an example of kinetic friction

(a) True (b) False

272) The applied heat energy can be realized as an increase in the average kinetic energy of the molecules.

(a) True (b) False

273) The dimensions of a substance are increased if the temperature of the substance is decreased.

(a) True (b) False

274) The process of converting a substance from solid to gas is called condensation.

(a) True (b) False

275) Convection is the process by which the thermal energy flows in solids.

(a) True (b) False

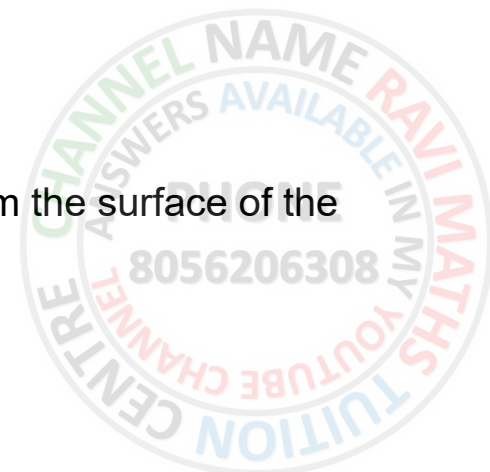
276) The amount of heat gained by a substance is equal to the product of its mass and latent heat.

(a) True (b) False

277) In a thermos flask, the silvered walls reflect and radiate the heat to the outside.

(a) True (b) False

278) The charge acquired by an ebonite rod rubbed with a piece of flannel is negative.



- (a) True (b) False
- 279) A charged body induces an opposite charge on an uncharged body when they are brought near.
- (a) True (b) False
- 280) Electroscope is a device used to charge a body by induction.
- (a) True (b) False
- 281) Water can conduct electricity
- (a) True (b) False
- 282) In parallel circuit, current remains the same in all components.
- (a) True (b) False
- 283) Skull in humans consists of 22 bones
- (a) True (b) False
- 284) There are 12 pairs of ribs in human body.
- (a) True (b) False
- 285) Pelvic girdle is a part of axial skeleton.
- (a) True (b) False
- 286) Hinge joint is slightly movable joint.
- (a) True (b) False
- 287) Cardiac muscle is a voluntary muscle.
- (a) True (b) False
- 288) The flexor and extensor muscle of the arm are antagonistic muscles.
- (a) True (b) False
- 289) There is a sudden increase in the height of both boys and girls during puberty.
- (a) True (b) False
- 290) The release of ovum from the uterus is called ovulation
- (a) True (b) False
- 291) During pregnancy, the corpus luteum continues to grow and produces large amount of estrogen and progesterone
- (a) True (b) False
- 292) Making use of disposable napkins or tampons may increase the chances of infections.
- (a) True (b) False



293) Using clean toilets for defecation is a good practice.

(a) True (b) False

26 x 2 = 52

294) Metals are generally good conductors of electricity, but not good conductors of heat.

295) Gallium metal is in solid state at or just above room temperature.

296) Compounds can be made up of one atom.

297) Coal can be drawn into wires.

298) Zinc is highly ductile in nature.

299) In hypotonic condition, concentration of the external and the internal solution of the organism are same.

300) Diffusion is the movement of particles from an area of lower concentration to higher concentration.

301) Human beings are warm blooded in nature.

302) The larynx has fold of tissue which vibrate with the passage of air to produce.

303) Aqueous humour plays an important role in maintaining the shape of the eye.

304) The Sun and the celestial bodies form the Solar system.

305) Chandrayaan-1 was launched from Sriharikota.

306) Mars is the smallest planet in the Solar system.

307) PSLV and GSLV are India's popular satellites.

308) The propellant of a rocket is only in the form of solids.

309) Sewage should be treated well before being discharged it into water bodies.

310) Seawater is suitable for irrigation as it contains dissolved salts.

311) Excessive use of chemical fertilizers depletes the soil and causes water pollution.

312) Water unfit for drinking is called potable water.

313) Soap lathers well in hard water.

314) Most of the acids are not soluble in water.

315) Acids are bitter in taste.

316) Bases are soapy to touch when they are dry

317) Acids are corrosive in nature.

318) All bases are alkalis.

319) Hibiscus flower is an example of natural indicator.

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