

## Chapter 08 :: GENERAL SCIENCE

- 'Plum Pudding Model' for an atom was proposed by
  - Antoine Lavoisier
  - Robert Boyle
  - Ernest Rutherford
  - J. J. Thomson
- After the corrosion, the weight of iron is
  - increase
  - decrease
  - no change
  - change
- Antacid tablets consist of
  - hydroxides of sodium, magnesium and aluminium
  - hydroxides of magnesium and aluminium
  - hydroxides of sodium and aluminium
  - hydroxides of magnesium and sodium
- Chernobyl accident is related with
  - nuclear accident
  - earthquake
  - flood
  - acid rain
- Deuterium is an isotope of
  - Oxygen
  - Nitrogen
  - Hydrogen
  - Carbon
- Glass is a
  - Liquid
  - colloid
  - Non-crystalline amorphous solid
  - crystalline solid
- In Ghyben-Herzberg relation between fresh water and saline water, salt water occur underground at a depth below sea level of about \_\_\_\_ times the height of fresh water above sea level.
  - 20
  - 30
  - 40
  - 50

8. Iron sheet kept in moist air gets covered with rust. Rust is
- An element
  - A compound
  - A mixture of iron and dust
  - A mixture of iron, oxygen and water
9. Mixture of which one of the following pairs of gases is the cause of occurrence of most of the explosions in mines?
- Hydrogen and oxygen
  - Oxygen and acetylene
  - Methane and air
  - Carbon dioxide and methane
10. Oxygen occurs in nature in \_\_\_\_\_ isotopic forms.
- 2
  - 3
  - 4
  - 1
11. Slow and uniform cooling of hot iron in its metallurgy is known as
- quenching
  - tempering
  - chilling
  - annealing
12. Teflon is a polymer of which of the following monomers?
- Tetrafluoroethylene
  - Vinyl chloride
  - Chloroprene
  - Acetylene dichloride
13. The characteristic smell of onion bulbs is due to
- Bad odour of soil, where grown
  - Sulphur compounds
  - Sugar
  - Reserve carbohydrates
14. The element involved with blood clotting is
- Phosphorus
  - Calcium
  - Iron
  - Sodium
15. The heat value of combustion of Gasoline is
- 12600 kJ/kg
  - 14600 kJ/kg

- (c) 39400 kJ/kg  
(d) 47000 kJ/kg
16. The most abundant fossil fuel in planet Earth is  
(a) Peat  
(b) Bitumen  
(c) Coal  
(d) Crude Oil
17. The ore of Aluminium is  
(a) Fluorspar  
(b) Chalcopyrites  
(c) Bauxite  
(d) Hematite
18. The process of emission of electrons from metal by UV rays is  
(a) Photoelectric emission  
(b) Thermionic emission  
(c) Secondary emission  
(d) Field emission
19. Through a chemical process coal is converted to a liquid/gas fuel known as  
(a) Coal fuel  
(b) Natural fuel  
(c) Oil shale  
(d) Synfuel
20. What are rubies and sapphires chemically known as?  
(a) Silicon dioxide  
(b) Aluminium oxide  
(c) Lead tetraoxide  
(d) Boron nitride
21. Which chemical was an important symbol in our struggle for freedom?  
(a) Glucose  
(b) Fertilizer  
(c) Medicine  
(d) Sodium chloride
22. Which of the following are the two main constituents of granite?  
(a) Iron and silica  
(b) Iron and silver  
(c) Silica and aluminium  
(d) Iron oxide and potassium

23. Which of the following elements is a metal?  
(a) Carbon  
(b) Sulphur  
(c) Nitrogen  
(d) Aluminium
24. Which of the following molecules or ions involved in the Nitrogen Cycle do not contain oxygen atom?  
(a) nitrite  
(b) ammonia  
(c) nitrate  
(d) laughing gas
25. Which one among the following salts causes hardness to the water?  
(a) Calcium bicarbonate  
(b) Calcium carbonate  
(c) Sodium sulphate  
(d) Potassium chloride
26. Which colour will result by mixing equal amount of blue and yellow colour?  
(a) Green  
(b) Yellowish green  
(c) Bottle green  
(d) Indigo
27. Tritium is an isotope of  
(a) Oxygen  
(b) Hydrogen  
(c) P hosphorous  
(d) Nitrogen
28. The dimension of 'impulse' is the same as that of  
(a) pressure  
(b) angular momentum  
(c) work  
(d) linear momentum
29. When a solid is heated, it turns directly into a gas. This process is called  
(a) Condensation  
(b) Evaporation  
(c) Sublimation  
(d) Diffusion
30. An atom of carbon has 6 protons. Its mass number is 12. How many neutrons are present in an atom of carbon?

- (a) 12  
(b) 6  
(c) 10  
(d) 14
31. Gliders depend on the following energy for their flight  
(a) chemical energy  
(b) heat energy  
(c) electrical energy  
(d) wind energy
32. Bernoulli's theorem is a statement of the conservation of  
(a) Linear momentum  
(b) Mass  
(c) Energy  
(d) Pressure
33. Which one of the following is used for writing on glass?  
(a) Silicon  
(b) Graphite  
(c) Hydrogen fluoride  
(d) Hydrogen iodide
34. In an atom, the order of filling up of the orbitals is governed by  
(a) Aufbau principle  
(b) Heisenberg's uncertainty principle  
(c) Hund's rule  
(d) Pauli's exclusion principle
35. Which of the following is not a crystalline substance?  
(a) Glass  
(b) Copper  
(c) Rock salt  
(d) Gold
36. Newton's first law is known as  
(a) Law of Friction  
(b) Law of Momentum  
(c) Law of Inertia  
(d) Law of Motion
37. Which of the following gases if present in the atmosphere can be detected by its odour?  
(a) Ethane  
(b) Sulphur dioxide  
(c) Hydrogen

- (d) Carbon monoxide
38. Instrument for measuring hardness of substances is called
- (a) Lucimeter
  - (b) Ceraunograph
  - (c) Durometer
  - (d) Hygrometer
39. A person suffering from long sightedness wears spectacles having
- (a) concave convex lens
  - (b) lenses with negative
  - (c) concave lenses
  - (d) convex lenses
40. For which one of the following does the centre of mass lie outside the body?
- (a) A fountain pen
  - (b) A cricket ball
  - (c) A ring
  - (d) A book
41. The optical phenomenon that is primarily responsible for the observation of rainbow on a rainy day is
- (a) diffraction
  - (b) interference
  - (c) dispersion
  - (d) reflection
42. With the rise of temperature, the viscosity of liquid
- (a) increases
  - (b) decreases
  - (c) remains unchanged
  - (d) may increase or decrease depending on nature of liquid
43. Banking of curves on road or railway track is done to provide
- (a) centripetal force
  - (b) centrifugal force
  - (c) gravitational force
  - (d) angular velocity
44. Speed of sound is maximum in
- (a) Solid
  - (b) Liquid
  - (c) Gas
  - (d) Same in all cases

45. Which of the following has maximum energy?  
(a) Violet light  
(b) Green light  
(c) Red light  
(d) Yellow light
46. Sound waves do not travel in  
(a) Solids  
(b) Liquids  
(c) Gases  
(d) Vacuum
47. Creation of something from nothing is against the law of  
(a) Constant proportions  
(b) Conservation of mass–energy  
(c) Multiple proportions  
(d) Conservation of momentum
48. Which one among the following has the highest energy?  
(a) Blue light  
(b) Green light  
(c) Red light  
(d) Yellow light
49. Which one of the following devices changes low voltage alternating current to high voltage alternating current and vice versa?  
(a) Generator  
(b) Motor  
(c) Transformer  
(d) Vibrator
50. A contemporary of Charles Darwin who came to the same conclusion in the matter of organic evolution was  
(a) Thomas Huxley  
(b) Franklin Benjamin  
(c) Jean-Baptiste Lamarck  
(d) Alfred Russel Wallace
51. A gene is a  
(a) Sleep-inducing drug  
(b) Unit of heredity  
(c) A kind of vitamin  
(d) A type of body cell
52. Accumulation of mercury into human body leads to \_\_\_\_\_ disease.  
(a) Itai-itai

- (b) Methaemoglobinaemia
  - (c) Minamata
  - (d) Polio
53. An essential feature of seed germination is the presence of
- (a) Minerals
  - (b) Water
  - (c) Light
  - (d) Temperature
54. Banana is a
- (a) Tree
  - (b) Herb
  - (c) Under-shrub
  - (d) Shrub
55. Cell wall of any fungus is different from plants in having
- (a) cellulose
  - (b) chitin
  - (c) cholesterol
  - (d) glycogen
56. Chromosomes are made up of
- (a) DNA
  - (b) Protein
  - (c) DNA and Protein
  - (d) RNA
57. Deficiency of iron is common in which type of soils?
- (a) Acidic soils
  - (b) Calcareous soils
  - (c) Saline soils
  - (d) Alkaline soils
58. Digestive processes of which one of the following constituents of food will be hampered if bile is not secreted by the gall bladder?
- (a) Fat
  - (b) Protein
  - (c) Carbohydrate
  - (d) Vitamin
59. Gas used for artificial ripening of fruits is :
- (a) Ethane
  - (b) Acetylene
  - (c) Propane
  - (d) Methane



60. Grevillea Robusta is the scientific name of\_\_\_\_\_
- (a) Peepal
  - (b) Teak
  - (c) Silver Oak
  - (d) Jack fruit
61. Improper handling and storage of cereal grains and oilseeds result in the production of toxins known as aflatoxins, which are not generally destroyed by normal cooking process? Aflatoxins are produced by
- (a) bacteria
  - (b) protozoa
  - (c) moulds
  - (d) viruses
62. In human digestive system, the process of digestion starts in
- (a) Oesophagus
  - (b) Buccal cavity
  - (c) Duodenum
  - (d) Stomach
63. In the eye donation, which part of the eye is transplanted from the donor?
- (a) Cornea
  - (b) Lens
  - (c) Retina
  - (d) The whole eye
64. Insulin is—
- (a) Fat
  - (b) Vitamin
  - (c) Carbohydrate
  - (d) Protein
  - (e) None of the above /More than one of the Above
65. Kidneys in human beings are part of the system for
- (a) Nutrition
  - (b) Respiration
  - (c) Excretion
  - (d) Locomotion
66. Microbial Type Culture Collection Centre is situated at
- (a) Chandigarh
  - (b) New Delhi
  - (c) Hyderabad
  - (d) Bengaluru

67. Panthera Pardus is the scientific name of  
(a) Leopard  
(b) Tiger  
(c) Lion  
(d) Panther
68. Prawn belongs to the phylum  
(a) Arthropoda  
(b) Cnidaria  
(c) Echinodermata  
(d) Chordata
69. Saffron is obtained from which part of plants?  
(a) Leaf  
(b) Stem  
(c) Anther and whole flower  
(d) Stigma and style
70. 'Slipper animalcule' is the common name for  
(a) Trypanosome  
(b) Plasmodium  
(c) Monocystis  
(d) Paramecium
71. Thalassemia is an example of  
(a) Deletion mutation  
(b) Point mutation  
(c) Silent mutation  
(d) Frame shift mutation
72. The cellular and molecular control of programmed cell death is known as  
(a) Apoptosis  
(b) Ageing  
(c) Degeneration  
(d) Necrosis
73. The main excretory organ of insects is  
(a) Kidneys  
(b) Nephridia  
(c) Malpighian tubules  
(d) Fat bodies
74. The pH of human blood is  
(a) 6.6  
(b) 7.2  
(c) 7.4

- (d) 7.8
75. The smallest known prokaryotic organism is
- (a) Bacteria
  - (b) Microcystis
  - (c) Chlorella
  - (d) Mycoplasma
76. \_\_\_\_\_ is a process of starting or restarting a computer.
- (a) Starting up
  - (b) Aligning
  - (c) Setting up
  - (d) Booting
77. 1 kilobyte is equal to
- (a) 1000 bytes
  - (b) 1008 bytes
  - (c) 1111 bytes
  - (d) 1024 bytes
78. A set of rules that governs data communication, is called
- (a) protocols
  - (b) standards
  - (c) RFCS
  - (d) None of these
79. By using Ctrl + P, which of the following will happen?
- (a) Open Paragraph Dialog Box
  - (b) Open Save Dialog Box
  - (c) Open Page Format Dialog Box
  - (d) Open Print Dialog Box
80. Facebook acquired WhatsApp for
- (a) 20 billion
  - (b) 27 billion
  - (c) 19 billion
  - (d) 18 billion
81. Home keys are provided in \_\_\_\_\_ row.
- (a) first
  - (b) second
  - (c) third
  - (d) four
82. In MS-Excel, which of the following functions is used to find the highest value within the list?

- (a) COUNT
  - (b) PROPER
  - (c) MAX
  - (d) SUM
83. In which port do you plug-in the cable of your keyboard?
- (a) VGA port
  - (b) Ethernet port
  - (c) USB port
  - (d) Sanpedro port
84. Internet works on
- (a) circuit switching only
  - (b) packet switching only
  - (c) Both circuit and packet switching
  - (d) None of the above
85. Megabyte is
- (a) 1024 byte
  - (b) 1024 kb
  - (c) 1024 MB
  - (d) 1 Nibble
86. Number of shift keys in a typewriter keyboard
- (a) 2
  - (b) 1
  - (c) 3
  - (d) 4
87. PSW stands for
- (a) Program status word
  - (b) Primitive status word
  - (c) Process status word
  - (d) Processor status word
88. The ability of an operating system to run more than one application at a time is called
- (a) multiuser computing
  - (b) time sharing
  - (c) multi programming
  - (d) multitasking
89. The comments which appear on the bottom of the page is
- (a) End note
  - (b) Foot note
  - (c) Thesaurus

- (d) None of these
90. The father of computer is  
(a) Charles Babbage  
(b) Love Lince  
(c) Charles Dickens  
(d) Oliver Twist
91. The key used to move the cursor by a fixed number of spaces is the \_\_\_\_\_.  
(a) Backspace key  
(b) Tab key  
(c) Alt key  
(d) Shift key
92. The method used for arranging keyboard is  
(a) Universal  
(b) Rhythm  
(c) Marginal  
(d) Qwerty
93. Typing mistake is called \_\_\_\_\_ error.  
(a) Typical  
(b) Chronological  
(c) Spelling  
(d) Typographical
94. What kind of data can you send by e-mail?  
(a) Audio  
(b) Video  
(c) Pictures  
(d) All of the above
95. Which abbreviation is used to refer to DSL service in general?  
(a) aDSL  
(b) xDSL  
(c) yDSL  
(d) nDSL
96. Which of the following is not the merge process?  
(a) Edit a data source  
(b) Sort the data source records  
(c) Merge the two files to print or create a new document  
(d) Format a main document
97. Which of the following short key is used for deleting the selected item permanently without placing the item in the Recycle Bin?

- (a) Alt + Delete
  - (b) Ctrl + Delete
  - (c) Shift + Delete
  - (d) None of these
98. Which one of the following bands is used in the transmission of signals in the Direct-to-Home?(DTH) television broadcasting?
- (a) X-band
  - (b) Q-band
  - (c) W-band
  - (d) Ku-band
99. Which one of the following types of computer is mainly associated with the conversion of analog output into digital form?
- (a) Digital computer
  - (b) Analog computer
  - (c) Hybrid computer
  - (d) Mainframe computer
100. Which of the following performs simple mathematical and logical operations for the CPU?
- (a) Both DIMM and BUS
  - (b) BUS
  - (c) Register
  - (d) ALU

**ANSWERS:**

- |     |     |     |     |     |     |     |     |      |     |
|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 1.  | (d) | 21. | (d) | 41. | (c) | 61. | (c) | 81.  | (b) |
| 2.  | (a) | 22. | (c) | 42. | (b) | 62. | (b) | 82.  | (c) |
| 3.  | (b) | 23. | (d) | 43. | (a) | 63. | (a) | 83.  | (c) |
| 4.  | (a) | 24. | (b) | 44. | (a) | 64. | (d) | 84.  | (b) |
| 5.  | (c) | 25. | (a) | 45. | (a) | 65. | (c) | 85.  | (b) |
| 6.  | (c) | 26. | (a) | 46. | (d) | 66. | (a) | 86.  | (a) |
| 7.  | (c) | 27. | (b) | 47. | (b) | 67. | (a) | 87.  | (a) |
| 8.  | (b) | 28. | (d) | 48. | (a) | 68. | (a) | 88.  | (d) |
| 9.  | (c) | 29. | (c) | 49. | (c) | 69. | (d) | 89.  | (b) |
| 10. | (b) | 30. | (b) | 50. | (d) | 70. | (d) | 90.  | (a) |
| 11. | (d) | 31. | (d) | 51. | (b) | 71. | (d) | 91.  | (b) |
| 12. | (a) | 32. | (c) | 52. | (c) | 72. | (a) | 92.  | (d) |
| 13. | (b) | 33. | (c) | 53. | (b) | 73. | (c) | 93.  | (d) |
| 14. | (b) | 34. | (a) | 54. | (b) | 74. | (c) | 94.  | (d) |
| 15. | (d) | 35. | (a) | 55. | (b) | 75. | (d) | 95.  | (a) |
| 16. | (c) | 36. | (c) | 56. | (a) | 76. | (d) | 96.  | (b) |
| 17. | (c) | 37. | (b) | 57. | (b) | 77. | (d) | 97.  | (c) |
| 18. | (a) | 38. | (c) | 58. | (a) | 78. | (a) | 98.  | (d) |
| 19. | (d) | 39. | (d) | 59. | (b) | 79. | (d) | 99.  | (c) |
| 20. | (b) | 40. | (c) | 60. | (c) | 80. | (c) | 100. | (d) |