

Time: 30 minutes

EVERYDAY SCIENCE : CHEMISTRY-NO.3

Marks: 100

1. Diamond is an allotropic form of
A. silicon B. carbon C. sulphur D. germanium
2. The element present in the largest amount in rocks and minerals is
A. carbon B. silicon C. hydrogen D. aluminium
3. Gobar gas contains mainly
A. methane B. carbon dioxide C. butane D. carbon monoxide
4. Which of the following is not correctly matched?
A. Galena:Lead sulphide B. Green vitriol:Copper sulphate
C. Plaster of Paris:Calcium sulphate D. Calomel:Mercurous chloride
5. The charcoal used to decolourise raw sugar is
A. animal charcoal B. sugar charcoal C. coconut charcoal D. wood charcoal
6. Which of the following is the lightest metal?
A. Mercury B. Silver C. Lithium D. Lead
7. Which of the following is a non-metal that remains liquid at room temperature?
A. Bromine B. Chlorine C. Helium D. Phosphorus
8. The gas used to extinguish fire is
A. neon B. nitrogen C. carbon dioxide D. carbon monoxide
9. The most malleable metal is
A. Silver B. Gold C. Aluminium D. Sodium
10. Balloons are filled with
A. helium B. oxygen C. nitrogen D. argon
11. The most important ore of aluminium is
A. bauxite B. calamine C. calcite D. galena
12. What is the chemical name of bleaching powder?
A. Calcium Carbonate B. Calcium hypochlorite
C. Calcium Phosphate D. Calcium Cyanamide

13. The most abundant metal in the earth's crust is
 A. zinc B. copper C. aluminium D. iron
14. An alloy used in making heating elements for electric heating device is
 A. solder B. alloy steel C. nichrome D. German silver
15. Which of the following is a source of common salt?
 A. Bauxite B. Halite C. Pyrite D. Calcite
16. German silver is an alloy of
 A. copper, nickel and silver B. silver, copper and aluminium
 C. zinc, copper and nickel D. silver, zinc and copper
17. From which mineral is radium obtained?
 A. Limestone B. Haematite C. Pitchblende D. Rutile
18. Production of chlorofluorocarbon (CFC) gas which is proposed to be banned in India, is used in which of the following domestic products?
 A. Television B. Tubelight C. Cooking gas D. Refrigerator
19. The element common in all acids is
 A. carbon B. hydrogen C. oxygen D. sulphur
20. Air is a/an
 A. compound B. element C. mixture D. electrolyte
21. Which form of phosphorus is used in safety matches?
 A. White phosphorus B. Yellow phosphorus
 C. Red Phosphorus D. Black Phosphorus
22. Which of the following is fire resistant?
 A. Asbestos B. Gypsum C. Dolomite D. Mica
23. What is laughing gas?
 A. Carbon dioxide B. Sulphur dioxide C. Hydrogen peroxide D. Nitrous oxide
24. Which of the following is an element?
 A. Ruby B. Sapphire C. Emerald D. Diamond
25. Which of the following is the best conductor of electricity?
 A. Copper B. Mica C. Zinc D. Silver
26. Which of the following gases is used in cigarette lighters?

- | | | | |
|-----------|------------|------------|----------|
| A. Butane | B. Methane | C. Propane | D. Radon |
|-----------|------------|------------|----------|
27. The metal used in storage batteries is
- | | | | |
|---------|-----------|---------|--------|
| A. iron | B. copper | C. lead | D. tin |
|---------|-----------|---------|--------|
28. Which of the following metals forms an amalgam with other metals?
- | | | | |
|---------|--------|---------|------------|
| A. Lead | B. Tin | C. Zinc | D. Mercury |
|---------|--------|---------|------------|
29. Which of the following is used in pencils?
- | | | | |
|-------------|------------|---------------|-------------|
| A. Charcoal | B. Silicon | C. Phosphorus | D. Graphite |
|-------------|------------|---------------|-------------|
30. Washing soda is the common name for
- | | |
|----------------------|------------------------|
| A. Calcium carbonate | B. Calcium bicarbonate |
| C. Sodium carbonate | D. Sodium bicarbonate |
31. Permanent hardness of water can be removed by adding
- | | |
|---------------------------|---------------------|
| A. potassium permanganate | B. chlorine |
| C. bleaching powder | D. sodium carbonate |
32. Bromine is
- | | |
|--|-----------------------------|
| A. a colourless gas insoluble in water | B. a highly inflammable gas |
| C. a black solid | D. a red liquid |
33. Chlorophyll is a naturally occurring chelate compound in which the central metal is
- | | | | |
|---------|-----------|------------|--------------|
| A. iron | B. copper | C. calcium | D. magnesium |
|---------|-----------|------------|--------------|
34. Non stick cooking utensils are coated with
- | | | | |
|----------------|--------|-----------|----------------|
| A. black paint | B. PVC | C. teflon | D. polystyrene |
|----------------|--------|-----------|----------------|
35. Which of the following is an important ore of aluminium?
- | | | | |
|--------------|------------|--------------|-------------|
| A. Magnetite | B. Bauxite | C. Haemetite | D. Monozite |
|--------------|------------|--------------|-------------|
36. The chemical name for urea is
- | | | | |
|------------|-----------------|--------------|------------------|
| A. aneurin | B. chloroethene | C. carbamide | D. None of these |
|------------|-----------------|--------------|------------------|
37. Water has maximum density at
- | | | | |
|-------------------------|------------------------|------------------------|--------------------------|
| A. -1°C | B. 0°C | C. 4°C | D. 100°C |
|-------------------------|------------------------|------------------------|--------------------------|
38. Most soluble in water is
- | | | | |
|------------|----------|------------|----------------|
| A. camphor | B. sugar | C. sulphur | D. common salt |
|------------|----------|------------|----------------|
39. Which of the following pairs does not contain a coinage metal?
- | | |
|--------------------|----------------------|
| A. Copper and Gold | B. Silver and Gold |
| C. Zinc and Gold | D. Copper and Silver |

40. Which of the following is the second most abundant metal in the earth's crust?
 A. Copper B. Aluminium C. Iron D. Zinc
41. Sodium metal is kept under ————
 A. water B. alcohol C. petrol D. kerosene
42. Which of the following substances is a bad conductor of electricity but a good conductor of heat?
 A. Asbestos B. Celluloid C. Porspecks D. Mica
43. Carborundum is
 A. Silicon dioxide B. Silicon carbide
 C. Silicon nitride D. Silicon phosphide
44. The filament of an electric bulb is made of
 A. Iron B. Nichrome C. Tungsten D. Graphite
45. Arrange the following metals in the decreasing order of their relative abundance in earth's crust after aluminium:
 1. Calcium 2. Iron 3. Sodium 4. Magnesium
 A. 1, 4, 2, 3 B. 1, 2, 4, 3 C. 2, 1, 3, 4 D. 2, 1, 4, 3
46. Which of the following metals remains in liquid form under normal conditions?
 A. Uranium B. Radium
 C. Zinc D. Mercury E. Titanium
47. Caustic Lotion is
 A. Sodium Chloride B. Silver Nitrate
 C. Sodium Hydroxide D. Sodium Nitrate
48. Heavy water is
 A. Tritium oxide B. Deuterium oxide C. Rain water D. Water at -4°C
49. Which of the following is a chemical change?
 A. Evaporation of water B. Burning of candle
 C. Glowing of an electric bulb D. Liquefaction of air
50. The two elements that are frequently used for making transistors are
 A. Boron and aluminium B. Silicon and germanium
 C. Iridium and tungsten D. Niobium and columbium
51. Which of the following gases is lighter than air?
 A. Carbon dioxide B. Oxygen C. Ammonia D. Chlorine

52. The gases used in different types of welding would include
 - A. Oxygen and hydrogen
 - B. Oxygen, acetylene and argon
 - C. Oxygen and acetylene
 - D. Oxygen, hydrogen, acetylene and nitrogen
53. Potassium nitrate is used in
 - A. Salt
 - B. Glass
 - C. Fertiliser
 - D. Medicine
54. Which of the following is not a bleaching agent?
 - A. Sulphur dioxide
 - B. Carbon dioxide
 - C. Sodium hypochlorite
 - D. Chlorine
55. The gas usually filled in the electric bulb is
 - A. Hydrogen
 - B. Oxygen
 - C. Argon
 - D. Carbon dioxide
56. Bleaching powder is made from
 - A. Sulphur dioxide and gypsum
 - B. Chlorine and charcoal
 - C. Soda ash and lime
 - D. Lime and chlorine
57. Which of the following is the lightest gas?
 - A. Nitrogen
 - B. Hydrogen
 - C. Ammonia
 - D. Carbon dioxide
58. An element found in all organic compounds
 - A. Sulphur
 - B. Phosphorus
 - C. Hydrogen
 - D. Carbon
59. Which of the following acids is found in digestive juices?
 - A. Lactic acid
 - B. Tannic acid
 - C. Amino acid
 - D. Hydrochloric acid
60. Alcohol contains
 - A. Nitrogen, Hydrogen, Oxygen
 - B. Carbon, Hydrogen, Oxygen
 - C. Oxygen, Carbon, Nitrogen
 - D. Hydrogen, Chlorine, Oxygen
61. In which type of rocks do the metals like gold and copper are mostly found?
 - A. Old igneous
 - B. Old sedimentary
 - C. Old metamorphic
 - D. New metamorphic
62. Which of the following alloys is used for making magnets?
 - A. Duralumin
 - B. Stainless steel
 - C. Alnico
 - D. Magnalium
63. The purest form of iron is
 - A. Steel
 - B. Cast iron
 - C. Pig iron
 - D. Wrought iron
64. The element required for solar energy conversion is
 - A. Beryllium
 - B. Silicon
 - C. Tantalum
 - D. Ultra pure carbon
65. Among the various allotropes of carbon,
 - A. diamond is the hardest, lamp black is the softest.

- B. diamond is the hardest, coke is the softest.
 C. coke is the hardest, graphite is the softest.
 D. diamond is the hardest, graphite is the softest.
66. Liquefied Petroleum Gas consists of mainly
 A. methane and hexane B. ethane and propane
 C. butane and propane D. methane, hexane and nonane
67. The percentage of carbon is the least in
 A. grey cast iron B. wrought iron C. white cast iron D. steel
68. Soda water contains
 A. nitrous acid B. carbonic acid C. carbon dioxide D. sulphuric acid
69. Lipids are
 A. Hormone B. Fatty acids
 C. Enzyme D. Sugars
70. Two or more forms of a chemical element having different physical properties but rising to identical chemical compounds are called
 A. Allotropes B. Isotopes C. Isomers D. Isotones
71. Which of the following gases is used as an illuminant in lamps used by hawkers?
 A. Methane B. Ethylene C. Acetylene D. Hydrogen
72. Carbon, diamond and graphite are together called ———
 A. isomers B. allotropes C. isomorphs D. isotopes
73. Brass is an alloy of
 A. nickel and copper B. zinc and copper
 C. nickel and copper D. nickel and silver
74. Emerald is in colour.
 A. violet B. yellow C. deep green D. Prussian blue
75. Which of the following is called a strategic metal?
 A. Silicon B. Germanium C. Titanium D. Uranium
76. Which of the following is used as a lubricant?
 A. Graphite B. Silica C. Diamond D. Iron oxide
77. Galvanised iron sheets have a coating of
 A. tin B. lead C. zinc D. chromium

78. Which of the following metals was first discovered by man?
 A. Bronze B. Silver C. Iron D. Copper
79. Which of the following is in liquid form at room temperature?
 A. Cerium B. Sodium C. Gallium D. Lithium
80. Of the following metals which one pollutes the air of a big city?
 A. Copper B. Chromium C. Lead D. Cadmium
81. Marsh gas is
 A. hydrogen B. nitrogen C. methane D. ethane
82. Which of the following is not a compound?
 A. Silica B. Red lead C. Slaked lime D. Black lead
83. The metal that is present in photo films is
 A. mercury B. platinum C. magnesium D. silver
84. Which one of the following is the basis of modern periodic table?
 A. Atomic mass B. Atomic number C. Atomic size D. Atomic volume
85. Permanent hardness of water, due to sulphates of the metal, can be destroyed by the use of
 A. nitrates B. zeolites C. sulphonates D. None of these
86. Which of the following is not an isotope of hydrogen?
 A. Protium B. Yttrium C. Deuterium D. Tritium
87. Monazite is an ore of
 A. iron B. titanium C. thorium D. zirconium
88. Which of the following pairs is not correctly
- | Mineral | | Industrial use |
|------------------|---|-----------------------|
| A. Zircon | - | Nuclear reactors |
| B. Manganese ore | - | Dry battery |
| C. Mica | - | Conduct electricity |
| D. Bauxite | - | Tanning |
89. When an iron nail gets rusted, iron oxide is formed
 A. without any change in the weight of the nail
 B. with increase in the weight of the nail
 C. with decrease in the weight of the nail
 D. without any change in colour or weight of the nail

ANSWERS

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