

General Science Model Test Questions 28 With Answers [Chemistry - 6]

1. An aqueous solution of pH zero is
(A) **Acidic** (B) Basic (C) Neutral (D) None of the above
2. Economical method of separation of essential oils from natural sources is possible by
(A) Steam distillation (B) Solvent extraction
(C) **Fractional distillation** (D) Fractional crystallization
3. Dilantin sodium is an
(A) Antihypertensive (B) Anticonvulsant
(C) **Anti-inflammatory** (D) Antimicrobial
4. One of the following is a heart drug
(A) **Dizioxin** (B) Lasix (C) Isonex (D) Brufen
5. Nylon 66 is prepared from
(A) Phenol and formaldehyde (B) Ethylene glycol and phthalic acid
(C) **Hexamethylene diamine and adipic acid** (D) Ethylene glycol and adipic acid
6. The formula of tetra chlorodiamine platinum (iv) is
(A) $[\text{Pt}(\text{NH}_3)_2 \text{Cl}_4]\text{Cl}_2$ (B) $\text{K}_4[\text{Pt}(\text{NH}_3)_2\text{Cl}_4]$
(C) **$[\text{Pt}(\text{NH}_3)_2]\text{Cl}_4$** (D) $[\text{Pt}(\text{NH}_3)_2\text{Cl}_4]$
7. The co-ordination number of atoms in BCC lattice is
(A) 12 (B) **6** (C) 8 (D) 4
8. Which one of the following has the highest boiling point?
(A) 0.1 m urea (B) **0.1 m NaCl** (C) 0.1 m sucrose (D) 0.1 m Glucose
9. Which has the highest pH?
(A) 1 m HCl (B) **1 m NaOH** (C) 1 m NH_4OH (D) 1 m Na_2CO_3
10. Non-stick kitchen ware is coated with
(A) Glass (B) Graphite (C) **Teflon** (D) Silicon
11. Match the following using codes given below:

- | | |
|-------------|-----------------|
| (a) Glass | 1. Phosphorous |
| (b) Cement | 2. Clay |
| (c) Matches | 3. Silica |
| (d) Ink | 4. Carbon black |

Codes:

- | | | | | |
|------------|----------|----------|----------|----------|
| | a | b | c | d |
| (A) | 3 | 1 | 4 | 2 |
| (B) | 1 | 2 | 3 | 4 |
| (C) | 3 | 2 | 1 | 4 |
| (D) | 4 | 2 | 1 | 3 |

12. What is the composition of baking powder?

- | | |
|---|--|
| (A) Na_2CO_3 + Acetic acid | (B) NaHCO_3 + Citric acid |
| (C) NaHCO_3 + Na_2CO_3 | (D) NaHCO_3 Tartaric acid |

13. What is THERAPEUTICS?

- | | |
|--------------------------------------|---------------------------------|
| (A) Science of art of heating | (B) Science of art of cosmetics |
| (C) Science of medicine | (D) Science of nature |

14. Identify the manmade element

- | | | | |
|------------|----------|------------------------|-------------|
| (A) Carbon | (B) Gold | (C) Californium | (D) Calcium |
|------------|----------|------------------------|-------------|

15. Which of the following is not an inert gas?

- | | | | |
|------------|----------|------------------|-----------|
| (A) Helium | (B) Neon | (C) Freon | (D) Xenon |
|------------|----------|------------------|-----------|

16. The metal present in vitamin B-12 is

- | | | | |
|---------------|------------|----------|-------------------|
| (A) Magnesium | (B) Copper | (C) Iron | (D) Cobalt |
|---------------|------------|----------|-------------------|

17. LPG contains

- | | |
|--|-------------------------------|
| (A) Methane, Ethane and Hexane | (B) Ethane, Hexane and Nonane |
| (C) Methane, Butane and Propane | (D) Ethane, Octane and Nonane |

18. Natural rubber is a polymer of

- | | | | |
|--------------|---------------------|------------|------------|
| (A) Ethylene | (B) Isoprene | (C) Buna-N | (D) Buna-S |
|--------------|---------------------|------------|------------|

19. A photographic plate uses

- (A) Silver bromide (B) Silver chloride
(C) Silver iodide (D) Potassium bromide
20. The sour taste of curd is due to
(A) Acetic acid (B) Citric acid (C) **Lactic acid** (D) Tartaric acid
21. Ornament Gold is
(A) 24 carat (B) **22 carat** (C) 20 carat (D) 18 carat
22. Laughing gas is
(A) Nitric oxide (B) **Nitrous oxide** (C) Zinc oxide (D) Copper oxide
23. Pethidine is an
(A) Antibiotic (B) Alkaloid (C) **Analgetic** (D) Antipyretic
24. Law of mass action was given by
(A) Faraday (B) Arrhenius (C) **Ostwald** (D) Guldberg and Waage
25. Oxidation is
(A) **Addition of hydrogen** (B) Addition of water
(C) Addition of oxygen (D) Addition of benzene
26. Terylene is
(A) Polyamide (B) **Polyester** (C) Polyether (D) Polyurthane
27. The gas responsible for fruit ripening is
(A) CO (B) CO₂ (C) **Ethylene** (D) SO₂
28. Which of the following is used as a preservative of food articles?
(A) Sodium bicarbonate (B) **Sodium benzoate**
(C) Sodium carbonate (D) Sodium chloride
29. The gas that should not be used for extinguishing fire is
(A) **O₂** (B) H₂ (C) N₂ (D) CO₂
30. The two elements showing diagonal relationship are
I. Berlium II. Sodium III. Aluminium IV. Magnesium

The correct answer is

- (A) I and IV **(B) I and III** (C) II and III (D) I and II

31. Which gas leaked in Bhopal tragedy?

- (A) Carbon monoxide (B) Sulphur dioxide
(C) Methyl iso-cyanide (D) Mercaptan

32. The important substance used in Vulcanisation of rubber is

- (A) Carbon (B) Phosphorous **(C) Silicon** (D) Sulphur

33. In oxidation reactions

- I. Valency is increased II. Electron is added
III. Electron is removed IV. Hydrogen is added

The correct answer is

- (A) I and II **(B) I and III** (C) I and IV (D) III and IV

34. Gun metal is alloy of

- (A) Cu and Sn (B) Cu, Zn and Ni **(C) Cu, Zn and Sn** (D) Cu and Al

35. The chemical name of Calomel is

- (A) Calcium chloride (B) Mercuric chloride
(C) Mercurous chloride (D) Aluminium chloride

36. Oil of vitriol is

- (A) Sulphuric acid** (B) Methyl salicylate
(C) Nitrobenzene (D) Hydrofluoric acid

37. Which of the following is an ester?

- (A) Coconut oil** (B) Kerosene oil (C) Glycerine (D) Xylene

38. To demonstrate the movement of water, which of the following solutions used?

- (A) Eosin** (B) Safranin (C) Fast green (D) Amido black

39. Some of the elements in enzymes function as

- (A) Chelators (B) Inhibitors (C) Cofactors **(D) Co-enzymes**

40. One of the following is used for artificial ripening of banana:
(A) Auxin (B) ABA (C) Coumarin (D) Ethylene
41. Acid rain that affects plants and animals is mainly due to this gas
(A) Carbon dioxide (B) Sulphur dioxide
(C) Manganese dioxide (D) Hydrogen cyanide
42. Kerosene oil is an example of
(A) Vegetable oil (B) Essential oil (C) Mineral oil (D) Natural oil
43. Which is the substance that is not present in automobiles exhausts?
(A) Oxides of Nitrogen (B) Carbon monoxide (C) Lead (D) Carbon dioxide
44. Pencil lead is made of
(A) Lead (B) Graphite (C) Charcoal (D) Coal
45. Temporary hardness of water is due to the presence of
(A) Bicarbonates of Ca and Mg (B) Chlorides of Ca and Mg
(C) Sulphates of Ca and Mg (D) All these
46. Vitamin B₁ is called
(A) Riboflavin (B) Thiamine (C) Pyridoxin (D) Citric acid
47. Hardness of water is due to the presence of
I. Salts of Calcium II. Salts of Iron
III. Salts of Potassium IV. Salts of Magnesium
(A) I and III (B) I and IV (C) I and II (D) II and III
48. Rayon is
(A) Natural rubber (B) Artificial silk (C) Natural silk (D) Artificial rubber
49. The important buffers present in the blood is
(A) CH₃COONH₄ (B) CH₃COOH / CH₃COONa
(C) H₂CO₃ / HCO₃⁻ (D) Na H₂PO₄ / Na₂HPO₄
50. Which is true of the following?

- (A) All known elements are present in nature
(B) Elements can be solids or liquids or gases
(C) All elements react with one another
(D) All compounds contain carbon
51. Phytochrome is
(A) Chromopeptide (B) Dipeptide
(C) Fatty acid (D) Nucleic acid
52. Gobar gas is a mixture of
(A) CH₄CO and H₂ (B) CO and N₂
(C) CO and H₂ (D) None of these
53. Which chemical is used for preserving the biological specimens in the laboratories?
(A) Phenol (B) Benzaldehyde (C) Acetaldehyde **(D) Formaldehyde**
54. Quarts is
(A) Sodium silicate (B) Alumina
(C) Calcium silicate (D) Silica
55. Which is the first man made elements?
(A) Sc (B) Os **(C) Tc** (D) Hg
56. What is not correct about colloids?
(A) They cannot be seen by naked eyes (B) They scatter light
(C) They keep moving constantly **(D) Their stability is increased by adding an electrolyte**
57. The raw material for the manufacture of paper is
(A) Paparerine (B) Starch **(C) Cellulose** (D) None of the above
58. The compound used to prepare Bakelite is
(A) Ethyl alcohol (B) Acetaldehyde **(C) Phenol** (D) Oxalic acid
59. Acetyl Salycilic acid is used as
(A) Tear gas (B) A fertilizer **(C) Pain killer** (D) Anaesthetic

- (A) An acid **(B) A base** (C) Neutral (D) Dual in nature
71. Rectified spirit is
- (A) 95% Ethanol** (B) 100 % Ethanol
(C) Ethanol with 5% Methanol (D) Power alcohol
72. Many organic compounds have the same molecular formula and they differ in their physical and chemical properties. This phenomenon is called as
- (A) Homologous series **(B) Isomerism**
(C) Isotopes (D) Fermentation
73. The chemical name of baking soda is
- (A) Sodium Chloride (B) Sodium phosphate
(C) Sodium carbonate **(D) Sodium bicarbonate**
74. Industrially used process for the conversion of Ethylene to polyethylene is known as
- (A) Hydrogenation (B) Substitution **(C) Polymerisation** (D) Addition
75. Epsom salt is
- (A) $ZnSO_4 \cdot 7H_2O$ **(B) $MgSO_4 \cdot 7H_2O$** (C) $CuSO_4 \cdot 7H_2O$ (D) $FeSO_4 \cdot 7H_2O$
76. When an acid reacts with an alkali, the following change is observed?
- (A) Heat is evolved** (B) A pop sound is produced
(C) A foul smell emanates (D) Light is produced
77. The gas evolved during the fermentation of sugar solution is
- (A) sulphur dioxide (B) Carbon monoxide
(C) Carbon dioxide **(D) Methane**
78. Elements which form often coloured compounds are
- (A) Noble gases (B) Halogens (C) Alkali metals **(D) Transition elements**
79. Which one of the following does not exhibit allotropy?
- (A) Carbon (B) Tin (C) Phosphorous **(D) Neen**
80. The metal used in air craft structure is

(B) 1 2 3 4

(C) 2 3 4 1

(D) 3 4 1 2

89. Which of the following turns blue litmus red

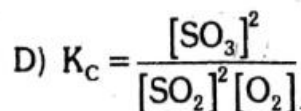
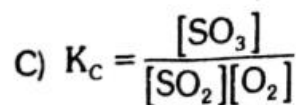
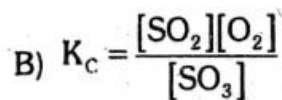
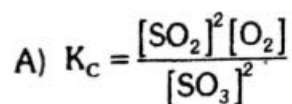
(A) Sodium carbonate

(B) Sodium hydroxide

(C) Acetic acid

(D) Acetaldehyde

90. Equilibrium constant for the equation



91. The best ductile metals are

(A) Aluminium, platinum

(B) Gold, Silver

(C) Copper, aluminium

(D) Iron, nickel

92. Consider the following statements:

I. Aluminium powder is used in making anticorrosion paints

II. Aluminium powder is used for packing foodstuff

III. Aluminium powder is used in making parts of aircraft

Of the statements:

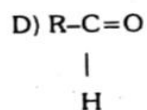
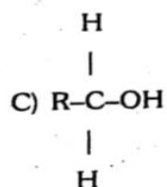
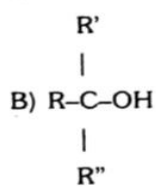
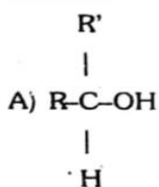
(A) All are correct

(B) I and II are correct

(C) II and III are correct

(D) I alone is correct

93. A primary alcohol has the general formula



94. The gas for artificial ripening of green fruits is
 (A) Carbon dioxide **(B) Ethylene** (C) Ethane (D) Hydrogen
95. An acid converts
 (A) Red litmus into blue **(B) Blue litmus into red**
 (C) No action on litmus (D) Blue litmus onto colourless
96. Acetylene on polymerization gives
 (A) Propolene (B) Benzene (C) P.V.C. **(D) Polythene**
97. Which enzyme converts glucose and fructose into ethyl alcohol and CO_2 ?
(A) Zymase (B) Invertase (C) Diastase (D) Maltase
98. The pyrolusite ore contains
 (A) Fe (B) Al **(C) Mn** (D) Cu
99. When an acidified solution of ferrous ammonium sulphate is treated with KMnO_4 solution, the ion which is oxidized is
(A) Fe^{2+} (B) SO_4^{2-} (C) NH_4^+ (D) MnO_4^-
100. Which of the following is a naturally occurring polymer?
 (A) Polyethylene (B) PVC (C) Acetic acid **(D) Protein**