1.

Zinc is not present in

# General Science Model Test Questions 12 With Answers [Chemistry - 1]

|         | ·  |                |                     |                 |           |                            |  |  |  |
|---------|--|----------------|---------------------|-----------------|-----------|----------------------------|--|--|--|
|         | (A) Brass  | (B) Bronze     |                     | (C) Solder      |           | (D) German silver          |  |  |  |
| 2.      | Dynamite was invented  | by             |                     |                 |           |                            |  |  |  |
|         | (A) Edison   | (B) Fleming    |                     | (C) Nobel       |           | (D) Bell                   |  |  |  |
| 3.      | Periodic table was given   | n by           |                     |                 |           |                            |  |  |  |
|         | (A) Faraday  | (B) Mendeleev  |                     | (C) Arrhenius   |           | (D) Lavoisier              |  |  |  |
| 4.      | Reduction is addition of   | f              |                     |                 |           |                            |  |  |  |
|         | (A) Hydrogen   | (B) Water      |                     | (C) Oxygen      |           | (D) Benzene                |  |  |  |
| 5.      | The galvanized iron pipes are coated with  |                |                     |                 |           |                            |  |  |  |
|         | (A) Tin  | (B) Lead       |                     | (C) Copper      |           | (D) Zinc                   |  |  |  |
| 6.      | Which one of the following is a mixture?   |                |                     |                 |           |                            |  |  |  |
|         | (A) Lime   | (B) Table salt |                     | (C) Sugar       |           | (D) Sea water              |  |  |  |
| 7.      | The correct sequence in decreasing order of the proportion of the given gases in the atmosphere is |                |                     |                 |           |                            |  |  |  |
|         | (A) Argon, Carbon-di-ox  | kide, oxygen   |                     | (B) Carbon-di-o | xide, Oxy | /gen, Argon                |  |  |  |
|         | (C) Oxygen, Argon, Car   | bon-di-oxide   |                     | (D) Argon, Oxyg | gen, Carb | oon-di-oxide               |  |  |  |
| 8.      | Non-stick kitchen wares are coated with  |                |                     |                 |           |                            |  |  |  |
|         | (A) PVC (B) Gra  | phite          | (C) Tefl            | on              | (D) Silic | on                         |  |  |  |
| 9.      | Gobar gas mainly conta   | ins            |                     |                 |           |                            |  |  |  |
|         | (A) Carbon-di-oxide  |                | (B) Carbon monoxide |                 |           |                            |  |  |  |
|         | (C) Hydrogen sulphide  |                | (D) Methane         |                 |           |                            |  |  |  |
| 10.     | The chief constituent of   | f vinegar is   |                     |                 |           |                            |  |  |  |
|         | (A) Formic acid  |                | (B) Acetic acid     |                 |           |                            |  |  |  |
|         | (C) salicylic acid   |                | (D) Oxalic acid     |                 |           |                            |  |  |  |
| 11.     | The fibre least prone to catch fire is   |                |                     |                 |           |                            |  |  |  |
| Learnii | (A) Nylon<br>ng Leads To Ruling  | (B) Polyster   |                     | (C) Cotton      |           | (D) Terylene  Page 1 of 13 |  |  |  |

| 12. | Setting of plaster of pairs involves                      |                   |                          |                            |              |  |  |  |  |
|-----|---|-------------------|--------------------------|----------------------------|--------------|--|--|--|--|
|     | (A) Dehydration process                                   |                   | (B) Hyd                  | ration to form other hy    | /drates      |  |  |  |  |
|     | (C) Oxidation process                                     |                   | (D) Red                  | uction process             |              |  |  |  |  |
| 13. | The chemical name for the compound having formula NaOH is |                   |                          |                            |              |  |  |  |  |
|     | (A) Caustic soda  |                   | (B) Caustic potash       |                            |              |  |  |  |  |
|     | (C) Soda ash  |                   | (D) Sodium hydroxide     |                            |              |  |  |  |  |
| 14. | Helium gas is filled in balloons because                  |                   |                          |                            |              |  |  |  |  |
|     | (A) Its atomic number is                                  | 2                 |                          | (B) It is lighter than air |              |  |  |  |  |
|     | (C) It is one of the consti                               | tuents of water   |                          | (D) It is a noble gas      |              |  |  |  |  |
| 15. | Gas law was given by                                      |                   |                          |                            |              |  |  |  |  |
|     | (A) Boyle   | (B) Ostwald       |                          | (C) Arrhenius              | (D) Faraday  |  |  |  |  |
| 16. | Consider the following s                                  |                   |                          |                            |              |  |  |  |  |
|     | I. Amalgams are alloys containing Hg.                     |                   |                          |                            |              |  |  |  |  |
|     | II. Amalgams are always                                   | in liquid state.  |                          |                            |              |  |  |  |  |
|     | III. Amalgams are highly                                  | coloured alloys.  |                          |                            |              |  |  |  |  |
|     | IV. Amalgams are alloys                                   | which resist cor  | rosion.                  |                            |              |  |  |  |  |
|     | Of the statements:  |                   |                          |                            |              |  |  |  |  |
|     | (A) I alone is correct                                    |                   | (B) I and II are correct |                            |              |  |  |  |  |
|     | (C) I, II and are correct                                 |                   | (D) All a                | are correct                |              |  |  |  |  |
| 17. | What happens to the eq                                    | uivalent conduc   | ctance o                 | f an electrolyte on dilu   | tion?        |  |  |  |  |
|     | (A) Decreases   |                   |                          |                            |              |  |  |  |  |
|     | (B) Increases   |                   |                          |                            |              |  |  |  |  |
|     | (C) Remains constant                                      |                   |                          |                            |              |  |  |  |  |
|     | (D) May increase or decrease depending on the electrolyte |                   |                          |                            |              |  |  |  |  |
| 18. | Match list-I with list-II co                              | orrectly and sele | ct your                  | answer using the codes     | given below: |  |  |  |  |
|     | List-I  |                   | List-II                  |                            |              |  |  |  |  |

#### **General Science**

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- (a) Antipyretics
- (b) Antimalarial
- (c) Antibiotic
- (d) Antiseptic

- 1. lodoform
- 2. Pencillin
- 3. Lower the temperature
- 4. Chloroquine

#### Codes:

- d а
- (A) 1 2 3
- (B) 3 2 1
- (C) 2 4 3 1
- (D) 3 2 4
- 19. Cotton fibre is made up of
  - (A) Protein (B) Cellulose
- (C) Minerals
- (D) Lignin

- 20. Protein metabolism is carried out by
  - (A) Vitamin A
- (B) Vitamin B<sub>1</sub>
- (C) Vitamin B<sub>2</sub>
- (D) Vitamin D

- 21. The first insecticide produced in India is
  - (A) DDT
- (B) BHC
- (C) Parathion
- (D) Chloral

- Piezo electric effect is exhibited by 22.
  - (A) Diamond
- (B) Quartz
- (C) Carbon
- (D) Iron

- 23. Isotopes have
  - (A) The same atomic mass

- (B) The same atomic number
- (C) The same proportion in different elements (D) Difference in mass

- Lunar caustic is 24.
  - (A) Sodium hydroxide

(B) Potassium hydroxide

(C) Silver nitrate

- (D) Sodium nitrate
- Which of the following is true? 25.
  - (A) A mineral cannot be an ore
- (B) All minerals are ore
- (C) All ores cannot be minerals
- (D) All ores are minerals
- 26. The colourless gas with the smell of rotten fish is

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|     | (A) H <sub>2</sub> S    |                        | (B) PH₃                                      |                  | (C) C <sub>2</sub> H <sub>4</sub>                     | (D) C <sub>2</sub> H <sub>2</sub>         |  |                      |
|-----|-------------------------|------------------------|--|------------------|---|---|--|----------------------|
| 27. | The fur                 | ngicide b              | ordeaux                                      | mixture          | e consists of   |   |  |                      |
|     | (A) Bor                 | ax and c               | opper si                                     | ulphate          |   | (B) Borax and calcium hydroxide           |  |                      |
|     | (C) Bor                 | ic acid a              | nd calciu                                    | ım hydro         | oxide   | (D) Copper sulphate and calcium hydroxide |  |                      |
| 28. | The sul                 | bstance                | used in t                                    | he man           | ufacture of high                                      | voltage i                                 | nsulators is   |                      |
|     | (A) Nat                 | ural rub               | ber  | (B) Silio        | cons  | (C) Silico                                | on carbide   | (D) Synthetic rubber |
| 29. | Tobacc                  | o is pres              | served fr                                    | om dryi          | ng out in   |   |  |                      |
|     | (A) Glycerol (B) Glycol |                        |  | col              | (C) Etha  | nol                                       | (D) Acetone  |                      |
| 30. | Match                   | list-I wit             | h list-II c                                  | orrectly         | and select your                                       | answer u                                  | sing the codes   | given below:         |
|     |                         | List-I                 |  |                  |   |   | List-II  |                      |
|     | (b) Em                  | pirical a<br>ptical or | odel of a<br>tomic m<br>bits of e<br>ydrogen | odel<br>lectrons | in an atom  |   | 1. J.J. Thomson<br>2. Bohr<br>3. Rutherford<br>4. Sommerfeld |                      |
|     | Codes:                  |                        |  |                  |   |   |  |                      |
|     |                         | а                      | b  | С                | d   |   |  |                      |
|     | (A)                     | 1                      | 3  | 2                | 4   |   |  |                      |
|     | (B)                     | 1                      | 2  | 3                | 4   |   |  |                      |
|     | (C)                     | 2                      | 1  | 4                | 3   |   |  |                      |
|     | (D)                     | 3                      | 1  | 4                | 2   |   |  |                      |
| 31. | Which                   | one of t               | he follov                                    | ving is in       | correctly match                                       | ed?                                       |  |                      |
|     | (A) Mo                  | hr's salt              |  |                  | - FeSO <sub>4</sub> (NH <sub>4</sub> ) <sub>2</sub> S | SO <sub>4</sub> 6H <sub>2</sub> O         |  |                      |
|     | (B) Bas                 | ic salt                |  |                  | - NaHCO₃  |   |  |                      |
|     | (C) Bas                 | ic salt                |  |                  | - Cu (OH) NO <sub>3</sub>                             |   |  |                      |
|     | (D) Cor                 | nplex sa               | lt   |                  | - K <sub>4</sub> Fe (CN) <sub>6</sub>                 |   |  |                      |
| 32. | Natura                  | l rubber               | is a poly                                    | mer der          | rived from  |   |  |                      |
|     | (A) But                 | adiene                 |  | (B) Eth          | ylene   | (C) Isopi                                 | rene   | (D) Propylene        |
| 33. | Butane dioic acid is    |                        |  |                  |   |   |  |                      |

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|     | (A) Malonic acid   |                     | (B) Adipic acid |                                     | (C) Succinic acid                          | (D) Glutaric acid                               |                               |  |  |
|-----|--|---------------------|-----------------|-------------------------------------|--|---|-------------------------------|--|--|
| 34. | Carborandum i  | S                   |                 |                                     |  |   |                               |  |  |
|     | (A) Si   | (B) SiC             |                 | (C) SiO <sub>2</sub>                |  | (D) SiCl <sub>4</sub>                           |                               |  |  |
| 35. | <sub>20</sub> Ca <sup>40</sup> and <sub>19</sub> K <sup>40</sup> |                     |                 |                                     |  |   |                               |  |  |
|     | (A) Isomers  |                     | (B) Isot        | opes                                |  | (C) Isobars                                     | (D) Isotones                  |  |  |
| 36. | Epsom salt is  |                     |                 |                                     |  |   |                               |  |  |
|     | (A) ZnSO <sub>4</sub> . 7H <sub>2</sub>                          | 0                   | (B) MgS         | SO <sub>4</sub> . 7H <sub>2</sub> C | )  | (C) FeSO <sub>4</sub> . 7H <sub>2</sub> O       | (D) None of these             |  |  |
| 37. | Which one of the   | he follov           | ving is ar      | n explosiv                          | e?   |   |                               |  |  |
|     | (A) Benzene he   | xachlori            | de              |                                     | (B) Trinitro toluene                       |   |                               |  |  |
|     | (C)Tetraethy le  | ad                  |                 |                                     |  | (D) Polyvinyl chloride                          |                               |  |  |
| 38. | The number of  | ions pro            | duced fr        | rom one n                           | nolecu                                     | e of K <sub>4</sub> Fe (CN) <sub>6</sub> in aqu | ueous solution is             |  |  |
|     | (A) 4  | (B) 3               |                 | (C) 5                               |  | (D) 1   |                               |  |  |
| 39. | The formula which is used to calculate number is                 |                     |                 |                                     | e maxi                                     | mum number of elect                             | rons in the principle quantum |  |  |
|     | (A) 2 <sup>2</sup>   | (B) 2n <sup>2</sup> |                 | (C) 3n                              |  | (D) 4n  |                               |  |  |
| 40. | Trimethyl benz   | ene is ca           | lled            |                                     |  |   |                               |  |  |
|     | (A) Pyrogallol   |                     | (B) Cate        | echol                               |  | (C) Mesityl oxide                               | (D) Mesitylene                |  |  |
| 41. | The formula of   | plaster             | of paris i      | S                                   |  |   |                               |  |  |
|     | (A) CaSO <sub>4</sub>  |                     |                 | (                                   | B) CaS                                     | O <sub>4</sub> . H <sub>2</sub> O               |                               |  |  |
|     | (C) CaSO <sub>4</sub> . ½ H                                      | 20                  |                 | (                                   | (D) CaSO <sub>4</sub> . 2 H <sub>2</sub> O |   |                               |  |  |
| 42. | A white powde  | r insolub           | ole in wa       | ter dissol                          | ves in a                                   | mmonium hydroxide                               | It could be                   |  |  |
|     | (A) Silver chlor   | ide                 |                 | (                                   | (B) Aluminim oxide                         |   |                               |  |  |
|     | (C) Calcium carbonate  |                     |                 |                                     | (D) Barium sulphate                        |   |                               |  |  |
| 43. | Mass number o  | of an elei          | ment rep        | oresents                            |  |   |                               |  |  |
|     | (A) Number of  | protons             | and neu         | utrons                              |  |   |                               |  |  |
|     | (B) Number of  | electron            | s and ne        | utrons                              |  |   |                               |  |  |

| (_\ | Numba | r of pro | tonca   | مام ام | ctrono  |
|-----|-------|----------|---------|--------|---------|
| (U) | Numbe | r ot pro | itons a | na eie | ectrons |

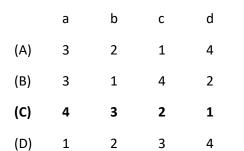
- (D) None of these
- 44. Match the following correctly and select your answer using the codes given below:

Shape

Molecule

- (a) Ammonia(b) Water(c) Boran trifluoride1. Linear2. Planar3. V-shaped
- (d) Carbon-di-oxide 4. Pyramid

Codes:



- 45. The commonly used refridgerant in fridges is
  - (A) Ammonia
- (B) Liquid nitrogen
- (C) Liquid oxygen
- (D) Freons
- 46. Match the items of list I with list II and select the correct answer using the codes given below the lists:

List-II List-II

- (a) Tollen's reagent
- 1. Cupric acetate in acetic acid
- (b) Bardoed's reagent
- 2. Mixture of CuSO<sub>4</sub> sodium citrate and Na<sub>2</sub>CO<sub>3</sub>
- (c) Molisch reagent
- 3. Ammonical silver nitrate solution
- (d) Benedict's solution
- 4. Alcoholic 2-naphthol and conc. H<sub>2</sub>SO<sub>4</sub>

Codes:

47. Match list-I with list-II correctly and select your answer using the codes given below:

List-II

List-I

48.

49.

50.

51.

|  |                         | 2          |            | 1.PbS<br>2. HgS<br>3. Al <sub>2</sub> O <sub>3</sub> , 2H <sub>2</sub> O<br>4. ZnS |                           |                                 |  |  |
|--|-------------------------|------------|------------|--|---------------------------|---------------------------------|--|--|
| Codes                                    | :                       |            |            |  |                           |                                 |  |  |
|  | a                       | b          | С          | d  |                           |                                 |  |  |
| (A)                                      | 2                       | 1          | 4          | 3  |                           |                                 |  |  |
| (B)                                      | 2                       | 4          | 1          | 3  |                           |                                 |  |  |
| (C)                                      | 1                       | 3          | 4          | 2  |                           |                                 |  |  |
| (D)                                      | 3                       | 1          | 4          | 2  |                           |                                 |  |  |
| Sodiu                                    | m thiosul               | phate is   | widely ι   | used in photogra   | phy. Its main role in pho | otographic process is due to    |  |  |
| (A) Re                                   | duction                 |            |            |  | (B) Oxidation             |                                 |  |  |
| (C) Co                                   | mplex fo                | rmation    |            |  | (D) Photo decomposition   |                                 |  |  |
| If the                                   | percenta                | ge of ox   | ygen in a  | a metallic oxide i   | s 33.33%, then its equiv  | alent mass is                   |  |  |
| (A) 66                                   |                         | (B) 16     |            | (C) 32   | (D) 50                    |                                 |  |  |
| In nat                                   | ure borax               | coccurs    | as         |  |                           |                                 |  |  |
| (A) Tir                                  | ncal                    |            | (B) Col    | emanite  | (C) Tridymite             | (D) Borasite                    |  |  |
| Match                                    | the item                | ns of list | I with lis | st II and select th  | e correct answer using t  | the codes given below the lists |  |  |
|  | List-I                  |            |            |  | List-II                   |                                 |  |  |
|  | eutral fer              |            |            | 1. Identification  | n of sulphur in organic c | ompounds                        |  |  |
|  | loride so<br>hling's so |            |            | 2. To identify p   | henolic group             |                                 |  |  |
|  | dium nit                |            |            |  |                           |                                 |  |  |
| prusside solution (d) Ammonium molybdate |                         |            | date       | 3. To identify phosphate   |                           |                                 |  |  |
|  | agnt                    |            |            | 4. To identify re  | educing sugars            |                                 |  |  |
| Codes                                    | ;                       |            |            |  |                           |                                 |  |  |
|  | a                       | b          | С          | d  |                           |                                 |  |  |
| (A)                                      | 3                       | 1          | 4          | 2  |                           |                                 |  |  |
| (B)                                      | 2                       | 4          | 1          | 3  |                           |                                 |  |  |

(C) 2 3 4 1

|     | (D)                         | 3          | 2           | 4                    | 1              |         |  |  |  |
|-----|-----------------------------|------------|-------------|----------------------|----------------|---------|--|--|--|
| 52. | Petrole                     | um maii    | nly conta   | ains                 |                |         |  |  |  |
|     | (A) Alip                    | hatic hy   | drocarbo    | ons                  |                |         | (B) Aromatic hydrocarbons                      |  |  |
|     | (C) Alip                    | hatic ald  | cohols      |                      |                |         | (D) None                                       |  |  |
| 53. | Bhopal                      | gas trag   | edy of 1    | 984 was              | caused by      | y one c | of the following o                             | compounds:                             |  |
|     | (A) CO                      |            | (B) COC     |                      | (0             | C) Met  | hyl isocyanide                                 | (D) Methyl isocyanate                  |  |
| 54. | pH of b                     | lood is    |             |                      |                |         |  |  |  |
|     | (A) 8                       |            | (B) 7.4     |                      | (C) 6.4        |         | (D) 4  |  |  |
| 55. | The blu                     | ie coloui  | of wate     | r in the             | sea is due     | to      |  |  |  |
|     | (A) Abs                     | orption    | of other    | colours              | except blu     | ue by v | vater molecules                                |  |  |
|     | (B) Sca                     | ttering o  | of blue li  | ght by v             | vater mole     | ecules  |  |  |  |
|     | (C) Ref                     | raction c  | of blue lig | ght by ir            | npurities i    | n sea v | vater  |  |  |
|     | (D) Ref                     | lection c  | of blue sk  | ky by a s            | ea water       |         |  |  |  |
| 56. | The aci                     | d preser   | nt in vine  | gar is               |                |         |  |  |  |
|     | (A) CH <sub>3</sub>         | соон       |             | (B) H <sub>2</sub> S | O <sub>4</sub> |         | (C) HCI  | (D) HNO₃                               |  |
| 57. | When a                      | a lead st  | orage ba    | ttery is             | discharged     | d       |  |  |  |
|     | (A) SO <sub>2</sub>         | is evolv   | ed          |                      |                |         | (B) Lead is formed                             |  |  |
|     | (C) Lea                     | d sulpha   | te is con   | sumed                |                |         | (D) H <sub>2</sub> SO <sub>4</sub> is consumed |  |  |
| 58. | Combu                       | stion ch   | emically    | is                   |                |         |  |  |  |
|     | (A) Dec                     | composit   | ion         |                      |                |         | (B) Reduction                                  |  |  |
|     | (C) Slov                    | w oxidat   | ion         |                      |                |         | (D) Rapid oxida                                | tion                                   |  |
| 59. | Cinnam                      | nic acid i | s prepar    | ed by                |                |         |  |  |  |
|     | (A) Friedel-Crafts reaction |            |             |                      |                |         | (B) Cannizzaro's reaction                      |  |  |
|     | (C) Per                     | kin's rea  | ction       |                      |                |         | (D) Claisen's rea                              | action                                 |  |
| 60. | The nu                      | mber of    | isomers     | in the a             | romatic co     | mpou    | nd with the form                               | nula C <sub>8</sub> H <sub>10</sub> is |  |
|     | (A) 2                       |            | (B) 3       |                      | (C) 4          |         | (D) 1  |  |  |

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| 61. | Trimethyl benzene is called   |                |                                   |                                   |            |  |  |           |                                    |  |
|-----|---|----------------|-----------------------------------|-----------------------------------|------------|--|--|-----------|------------------------------------|--|
|     | (A) Pyro  | ogallol        |                                   | (B) Mes                           | sitylene   |  | (C) Catechol   |           | (D) Mesityl oxide                  |  |
| 62. | Benxalo   | dehyde         | on treat                          | ment wit                          | th chlorii | e absence of catalyst gives  |  |           |                                    |  |
|     | (A) Ben   | zoyl chl       | oride                             |                                   |            |  | (B) O – chlorobenzaldehyde   |           |                                    |  |
|     | (C) P-ch  | lorober        | ncaldehy                          | de                                |            |  | (D) Chlorobenzene  |           |                                    |  |
| 63. | Salicylic   | acid is        | prepare                           | d by                              |            |  |  |           |                                    |  |
|     | (A) Perl  | kin's rea      | iction                            |                                   |            |  | (B) Kolbe's reaction   |           |                                    |  |
|     | (C) Rein  | ner – Ti       | emann r                           | eaction                           |            |  | (D) Hofmann re   | eaction   |                                    |  |
| 64. | What is the formula of plaster of pairs?  |                |                                   |                                   |            |  |  |           |                                    |  |
|     | (A) CaS   | O <sub>4</sub> | (B) CaS                           | O <sub>4</sub> . H <sub>2</sub> O |            | (C) CaS  | O <sub>4</sub> . ½ H <sub>2</sub> O                                      | (D) CaSo  | O <sub>4</sub> . 2H <sub>2</sub> O |  |
| 65. | Tartar e  | emetic is      | S                                 |                                   |            |  |  |           |                                    |  |
|     | (A) Pota  | assium l       | oismuth                           | nitrate                           |            | (B) Potassium t  | artrate  |           |                                    |  |
|     | (C) Antimony tartrate   |                |                                   |                                   |            |  | (D) Potassium  | antimony  | yl tartrate                        |  |
| 66. | The fou   | irth elec      | tron in a                         | atom will                         | have th    | e four q   | uantum numbe   | rs as     |                                    |  |
|     |   | n              | I                                 | m                                 | ss         |  |  |           |                                    |  |
|     | (A)   | 2              | 0                                 | 0                                 | -1/2       |  |  |           |                                    |  |
|     | (B)   | 1              | 0                                 | 0                                 | +1/2       |  |  |           |                                    |  |
|     | (C)   | 2              | 1                                 | 0                                 | +½         |  |  |           |                                    |  |
|     | (D)   | 1              | 1                                 | 1                                 | +½         |  |  |           |                                    |  |
| 67. | Mass number of an element represents number of  |                |                                   |                                   |            |  |  |           |                                    |  |
|     | (A) Pro   | tons an        | d neutro                          | ons                               |            |  | (B) Electrons ar   | nd neutro | ons                                |  |
|     | (C) Protons and electrons   |                |                                   |                                   |            |  | (D) None of these  |           |                                    |  |
| 68. | Mohr's  | salt is        |                                   |                                   |            |  |  |           |                                    |  |
|     | (A) (NH <sub>4</sub> ) <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> 6H <sub>2</sub> O |                |                                   |                                   |            |  | (B) (NH <sub>4</sub> ) Fe(SO <sub>4</sub> ) <sub>2</sub> 5H <sub>2</sub> |           |                                    |  |
|     | (C) (NH   | 4)2 Fe(S(      | O <sub>4</sub> ) <sub>2</sub> 24H | 20                                |            | (D) (NH <sub>4</sub> ) Fe(SO <sub>4</sub> ) <sub>2</sub> 6H <sub>2</sub> O |  |           |                                    |  |
| 69. | The absorbent used in colour chromate-graphic method is                                 |                |                                   |                                   |            |  |  |           |                                    |  |

| _            | iera | _ ' | • |        |
|--------------|------|-----|---|--------|
| <b>1</b> -04 | 000  |     | - | $\sim$ |
|              |      |     |   |        |
|              |      |     |   |        |

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|     | (A) Silic   | a gel     |           | (B) Ben    | zene  | (C) Acetone                               | (D) Ether         |  |  |  |  |
|-----|---|-----------|-----------|------------|---|---|-------------------|--|--|--|--|
| 70. | The nui   | mber of   | orbitals  | in f sub   | – shell energy le   | vel is                                    |                   |  |  |  |  |
|     | (A) 3   |           | (B) 2     |            | (C) 5   | (D) 6                                     |                   |  |  |  |  |
| 71. | In the p  | eriodic   | table, th | ne eleme   | nts present in th   | ne groups from 3 to                       | o 12 are known as |  |  |  |  |
|     | (A) S –   | Block     |           | (B) P –    | Block   | (C) D – Block                             | (D) F – Block     |  |  |  |  |
| 72. | The eff   | ect whic  | ch repre  | sents the  | e splitting of spe  | ctral lines by external magnetic field is |                   |  |  |  |  |
|     | (A) Zee   | man eff   | fect      | (B) Star   | k effect (C) Ran  | nan effect (                              | D) None of these  |  |  |  |  |
| 73. | Match   | the follo | owing:    |            |   |   |                   |  |  |  |  |
|     | Molecu  | le        |           |            | Shape   |   |                   |  |  |  |  |
|     | <ul><li>(a) Ammonia</li><li>(b) Water</li><li>(c) Borontrifluoride</li><li>(d) Carbon-dioxide</li></ul> |           |           |            | <ol> <li>Linear</li> <li>Planer</li> <li>V-shaped</li> <li>Pyramid</li> </ol> | 2. Planer<br>3. V-shaped                  |                   |  |  |  |  |
|     | Codes:  |           |           |            |   |   |                   |  |  |  |  |
|     |   | a         | b         | С          | d   |   |                   |  |  |  |  |
|     | (A)   | 3         | 2         | 1          | 4   |   |                   |  |  |  |  |
|     | (B)   | 3         | 1         | 4          | 2   |   |                   |  |  |  |  |
|     | (C)   | 4         | 3         | 2          | 1   |   |                   |  |  |  |  |
| 74  | (D)   | 1         | 2         | 3          | 4   | +h o                                      |                   |  |  |  |  |
| 74. |   |           | and side  |            | eriodic table are   |   | (D) Dave earths   |  |  |  |  |
| 7.5 | (A) Met   |           |           |            | n-metals  | (C) Metalloids                            | (D) Rare earths   |  |  |  |  |
| 75. |   |           |           |            | water will  |   |                   |  |  |  |  |
|     | (A) Turi  | n red lit | mus to b  | lue        |   | (B) Turn blue litn                        |                   |  |  |  |  |
|     | (C) Dec   | olourise  | e litmus  |            |   | (D) None of these                         | 2                 |  |  |  |  |
| 76. | Which   | of the fo | ollowing  | element    | ts is the most ele  | ectronegative?                            |                   |  |  |  |  |
|     | (A) Oxy   | gen       |           | (B) Chlo   | orine   | (C) Nitrogen                              | (D) Fluorine      |  |  |  |  |
| 77. | Which   | one of t  | he follo  | ving is in | correctly match   | ed?                                       |                   |  |  |  |  |
|     | (A) Mol   | hr's salt |           |            |   |   |                   |  |  |  |  |

#### **General Science**

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(B) Basic salt - NaCHO<sub>3</sub>

(C) Basic salt - Pb(OH) NO<sub>3</sub>

(D) Coordination salt (complex) - K[Ag(CN)<sub>2</sub>]

78. Match the following:

(a) Benzene hexachloride 1. Thermoplastic material

(b) Trinitrotoluene 2. Insecticide

(c) Tetraethyl 3. Explosive

(d) Polyvinyl chloride 4. Anti- knock compound

Codes:

a b c d

(A) 2 3 4 1

(B) 4 1 2 3

(C) 1 2 3 4

(D) 3 4 1 2

79. The number of isomers in the aromatic organic compound with molecular formula C<sub>7</sub>H<sub>8</sub>O is

(A) 2 (B) 3 (C) 4 (D) 5

80. Silver nitrate produces a black stain on skin due to

(A) Being strong reducing agent (B) Its corrosive action

(C) Its reduction to metallic silver (D) None of these

81. Copper sulphate solution is acidic in nature due to

(A) Hydrolysis (B) Ionisation

(C) Presence of sulpharate ions (D) None of these

82. A white powder, insoluble in water dissolves in ammonium hydroxide, could be

(A) Barium sulphate (B) Aluminium oxide

(C) Silver chloride (D) Calcium carbonate

83. Epsom salt is

(A) ZnSO<sub>4</sub> . 7H<sub>2</sub>O (B) FeSO<sub>4</sub> . 7H<sub>2</sub>O (C) MgSO<sub>4</sub> . 7H<sub>2</sub>O (D) None of these

84. Biogas mainly contains

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|     | (A) Carbon-di-oxide  | (B) Oxygen                             | (C) Methane                            | (D) Nitrogen                             |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|
| 85. | Acid rain is caused by t                                       | he pollutants                          |  |  |  |  |  |  |
|     | (A) CO and CO <sub>2</sub>                                     | (B) CO <sub>2</sub> and O <sub>3</sub> | (C) N <sub>2</sub> and CO <sub>2</sub> | (D) N <sub>2</sub> O and SO <sub>2</sub> |  |  |  |  |
| 86. | Acetyl salicylic acid is co                                    | ommonly used as                        |  |  |  |  |  |  |
|     | (A) Tear gas   | (B) A fertilizer                       | (C) A pain killer                      | (D) A sedative                           |  |  |  |  |
| 87. | Which solution will have                                       | ve the highest boiling poi             | nt?                                    |  |  |  |  |  |
|     | (A) 1% solution of gluco                                       | ose in water                           |  |  |  |  |  |  |
|     | (B) 1% solution of sodi  | um chloride in water                   |  |  |  |  |  |  |
|     | (C) 1% solution of zinc  | sulphate in water                      |  |  |  |  |  |  |
|     | (D) 1% solution of urea  | in water                               |  |  |  |  |  |  |
| 88. | The disaccharide prese   | nt in milk is                          |  |  |  |  |  |  |
|     | (A) Sucrose  | (B) Maltose                            | (C) Lactose                            | (D) Cellotriose                          |  |  |  |  |
| 89. | Natural petroleum is a liquid mixture of paraffin hydrocarbons |  |  |  |  |  |  |  |
|     | (A) C <sub>4</sub> to C <sub>12</sub>                          | (B) C <sub>1</sub> to C <sub>20</sub>  | (C) C <sub>1</sub> to C <sub>40</sub>  | (D) C <sub>5</sub> to C <sub>15</sub>    |  |  |  |  |
| 90. | Which gas is commonly  | y filled in giant balloons?            |  |  |  |  |  |  |
|     | (A) Hydrogen   | (B) Helium                             | (C) Hydrogen sulphide                  | (D) Carbon-di-oxide                      |  |  |  |  |
| 91. | The chemical added to  | the colourless LPG cook                | ing to give odour is                   |  |  |  |  |  |
|     | (A) Chlorine   | (B) Bromine                            | (C) Nitrogen                           | (D) Sulphur                              |  |  |  |  |
| 92. | Which of the following   | gases may cause acid ra                | in in an industrial area?              |  |  |  |  |  |
|     | (A) CO <sub>2</sub> (B) CO                                     | (C) SO <sub>2</sub>                    | (D) CH <sub>4</sub>                    |  |  |  |  |  |
| 93. | Which of the following   | contains poly unsaturate               | ed fatty acids in largest a            | mount?                                   |  |  |  |  |
|     | (A) Sunflower oil  | (B) Coconut oil                        | (C) Soyabean oil                       | (D) Cotton seed oil                      |  |  |  |  |
| 94. | The drugs caffeine, tan  | nin, nicotine are                      |  |  |  |  |  |  |
|     | (A) Steroids   | (B) Milk alkalis                       | (C) Alkaloids                          | (D) Cortisones                           |  |  |  |  |
| 95. | Urea is a fert   | tilizer                                |  |  |  |  |  |  |
|     | (A) Phosphate  | (B) Potash                             | (C) Nitrogenous                        | (D) None of these                        |  |  |  |  |

96. Coloured glass, coral, ruby glass, metal alloys are colloidal solutions of

(A) Solid in a gas

(B) Liquid in a liquid

(C) Solid in a solid

(D) Solid in a liquid

97. Which carbohydrate is not a hexose?

(A) Glucose

(B) Fructose

(C) Mannose

(D) Lactose

98. Which is not correctly matched?

(A) Kekule

- Structure of benzene

(B) Contact process

- Synthesis of ammonia

(C) Haworth

- Synthesis of anthracene

(D) Vant Hoff

- Dilute solutions

99. A solution of potassium nitrate is

(A) Alkaline

(B) Neutral

(C) Alkaline of acidic depending on the concentration

(D) Acidic

100. How is the degree of hardness of water expressed?

(A) Parts per millions of calcium chloride

(B) ppm of magnesium carbonate

(C) ppm of magnesium chloride

(D) ppm of calcium carbonate