

**KUSHMANDA IAS HCS ACADEMY**  
**Opp IB College, 2<sup>nd</sup> Floor,RJ Tower,GT Road**  
**Panipat, HELPLINE:01806539177,8607570992,9728926678**

**HCS EXAM 2018**  
**GENERAL SCIENCE (GS PAPER)**

**SET 1**

1. Which of the following types of clothes is manufactured by using petroleum products?

- (a) Rayon Silk
- (b) Terelyne
- (c) Silk
- (d) Cotton

2. Which chemical weathering process affects limestone the most?

- (a) Oxidation
- (b) Sulphonation
- (c) Hydration
- (d) None of the above

3. Temporary hardness of water is due to the presence of

- (a) Chlorides of calcium and magnesium
- (b) Sulphates of calcium and sodium
- (c) Hydroxides of calcium and sodium
- (d) Bicarbonates of calcium and magnesium

4. The coil of an electric heater is made of

- (a) Zinc
- (b) Brass
- (c) Copper
- (d) Nichrome

5. If water contracts on freezing which of the following would happen?

- (a) Icebergs will completely float on the surface of water.
- (b) Ice would become more dense.
- (c) Lakes would freeze from top to bottom.
- (d) Rocks will crack due to freezing of internal water.

6. Mercury is commonly used as thermometric fluid rather than water. This is because

- (a) The specific heat of mercury is smaller than that of water.
- (b) The density of mercury is greater than that of water.
- (c) The specific heat of mercury is greater than that of water.
- (d) Mercury has greater visibility than that of water.

7. Chemical composition of pearls is

- (a) Calcium carbonate
- (b) Calcium carbonate and magnesium carbonate
- (c) Calcium sulphate
- (d) Calcium chloride

8. Which one of the following is likely to be the end product of the chemical weathering of potash feldspar?

- (a) Bauxite
- (b) Calcite
- (c) Kaolin
- (d) Muscovite

9. Lead pencils

- (a) Contain lead
- (b) Contain copper
- (c) Do not contain lead but graphite mixed with a little of plastic clay
- (d) None of the above

10. A light sensitive compound used in photography is

- (a) Silver chloride
- (b) Silver sulphide
- (c) Silver bromide
- (d) Silver oxide

11. Alloys used in making airplane parts contain

- (a) Zinc and aluminium
- (b) Copper and zinc
- (c) Magnesium and zinc
- (d) Magnesium and aluminium

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12. Match the following:

- (A) Lead 1. Pitchblende
- (B) Aluminium 2. Monazite
- (C) Thorium 3. Bauxite
- (D) Uranium 4. Galena

**AB CD**

(a) 4 1 2 3

(b) 2 3 1 4

(c) 1 4 3 2

(d) 4 3 2 1

13. Why does hard water not lather with the soap profusely?

(a) Hard water contains sulphates and chlorides

of magnesium and calcium which form

insoluble compounds with soap?

(b) Hard water does not contain calcium

(c) hard water does not contain chlorides

(d) Hard water does not contain sulphates

14. Which of the following is used in photography?

(a) Silver bromide

(b) Silver iodide

(c) Silver nitrate

(d) None of the above

15. Ripening of green fruits is hastened artificially by using

(a) Acetylene

(b) Methane

(c) Sulphur dioxide

(d) Carbon dioxide

16. The heads of safety matches do not contain

(a) Phosphorous

(b) Sulphur

(c) Antimony trisulphide

(d) Potassium Chlorate

17. HCl is a stronger acid than CH cause

(a) It contains less number of H atoms

(b) It ionises completely to yield H+ ions

(c) It contains chlorine

(d) It does not contain oxygen

18. 'Epsom Salt', a well known laxative, is chemically named as

(a) Sodium chloride

(b) Sodium sulphate

(c) Magnesium chloride

(d) Magnesium sulphate

19. An alcohol will always contain

(a) Oxygen, carbon and nitrogen

(b) Carbon, hydrogen and oxygen

(c) Nitrogen, hydrogen and oxygen

(d) Hydrogen, oxygen and chlorine

20. Reduction is a reaction in which

(a) There is loss of electrons

(b) An atom gains electrons

(c) Transfer of negative valency takes place

(d) Gain of negative valency takes place

21. An oil can be made fat by the process of

(a) Hydrogenation

(b) Hydrolysis

(c) Oxidation

(d) Saponification

22. The nucleus of deuterium contains

(a) One proton and one neutron

(b) One proton and one electron

(c) One neutron and one electron

(d) Two protons

23. Which one of the following statements is incorrect?

(a) A catalyst is highly specific in action

(b) A catalyst alters the rates of the forward

and backward reactions equally, in a reversible reaction

(c) A catalyst is used in the course of the reaction

(d) A catalyst remains unchanged at the end

of the chemical reaction

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*and atomic weight is*

### (a) Hydrogen

- (a) Hydrogen
  - (b) Helium
  - (c) Oxygen
  - (d) Nitrogen

*25. Match the following :*

- I. Washing soda A. Sodium hydroxide  
II. Caustic soda B. Copper sulphate  
III. Blue vitriol C. Sodium thiosulphate  
IV. Hypo D. Sodium carbonate

IIIIV

- (a)  $D A B C$   
 (b)  $B C A D$   
 (c)  $A D B C$   
 (d)  $D A C B$

*Continue.....*

(ANSWERS)

- 1 (b)
  - 2 (c)
  - 3 (d)
  - 4 (d)
  - 5 (b)
  - 6 (d)
  - 7 (a)
  - 8 (c)
  - 9 (c)
  - 10 (c)
  - 11 (d)
  - 12 (d)
  - 13 (a)–
  - 14 (a)
  - 15 (a)
  - 16 (a)
  - 17 (b)
  - 18 (d)
  - 19 (b)
  - 20 (b)
  - 21 (a)
  - 22 (a)
  - 23 (d)

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**3 Q) The element present in the largest amount in rocks and minerals is**

- (a) carbon
- (b) silicon
- (c) hydrogen
- (d) aluminium

**4 Q) An alloy used in making heating elements for electric heating devices is**

**SET 7**

**1.Q) Which of the following is the lightest metal?**

- (a) Mercury
- (b) Silver
- (c) Lithium
- (d) Lead

**2 Q) The most important ore of aluminium is**

- (a) bauxite
- (b) calamine
- (c) calcite
- (d) galena

- (a) solder

- (b) alloy steel

- (c) nichrome

- (d) German silver

**5 Q) 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

**6 Q) Match the following : ABCD will correctly match with**

A.	Aluminum	1	Monazite

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B.	Uranium	2	Pitchblende
C.	Thorium	3	Bauxite
D.	Lead	4	Galena
		5	Haematite

(a) 5 3 2 4

(b) 3 2 4 1

(c) 3 2 1 4

(d) 2 3 1 5

**7 Q) Diamond is an allotropic form of**

(a) silicon

(b) carbon

(c) sulphur

(d) germanium

**8 Q) Air is a/an**

(a) compound

(b) element

(c) mixture

(d) electrolyte

**9 Q) Which of the following is the best conductor of electricity?**

(a) Ordinary water

(b) Sea water

(c) Boiled water

(d) Distilled water

**10 Q) Balloons are filled with**

(a) helium

(b) oxygen

(c) nitrogen

(d) argon

**11 Q) The charcoal use to decolourise raw sugar is**

(a) animal charcoal

(b) sugar charcoal

(c) coconut charcoal

(d) wood charcoal

**12 Q) The most abundant metal in the earth's crust is**

(a) zinc

(b) copper

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(c) aluminium

(d) iron

**13 Q) Production of chlorofluorocarbons (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

**14 Q) The gas used to extinguish fire, is**

(a) neon

(b) nitrogen

(c) carbon dioxide

(d) carbon monoxide

**15 Q) In which of the following activities silicon carbide is used ?**

(a) Making cement and glass

(b) Disinfecting water of ponds

(c) Making casts for statues

(d) Cutting very hard substances

**16 Q) The element common to all acids is**

(a) carbon

(b) hydrogen

(c) oxygen

(d) sulphur

**17 Q) Gobar gas contains mainly**

(a) methane

(b) carbon dioxide

(c) butane

(d) carbon monoxide

**18 Q) The most malleable metal is**

(a) Silver

(b) Gold

(c) Aluminium

(d) Sodium

**19 Q) Tetraethyl lead is used as**

(a) mosquito repellent

(b) painkiller

(c) fire extinguisher

(d) petrol additive

**20 Q) Which of the following is used in beauty parlours for hair setting?**

(a) Chlorine

(b) Sulphur

(c) Phosphorus

(d) Silicon

**21 Q) What type of reaction is carried out by the lipase in the digestion of fats?**

(a) Reduction

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(b) Dehydration

(c) low resistivity and low melting point

(c) Hydrolysis

(d) high resistivity and high melting point

(d) Calcification

**25 Q) Which of the following is not a natural polymer?**

**22 Q) "Assertion (A) Lithium is used in the light weight electrical batteries of the type found in clocks and watches. Reason (R) The mass of Li required to release 1 mole of electron is so small. "**

(a) Both A and R are true and R is the correct explanation of A

(a) Wool

(b) Both A and R are true but R is not the correct explanation of A

(b) Silk

(c) A is true but R is false

(c) Cotton

(d) A is false but R is true

(d) Teflon

**23 Q) Which one of the following compounds is frequently found packed with drying tubes?**

(a) Calcium sulphate

**26 Q) The ultra pure metal is obtained by**

(b) Magnesium chloride

(a) calcination

(c) Calcium chloride

(b) sublimation

(d) Sodium thiosulphate

(c) zone refining

**24 Q) Metal used to make wires for safety fuses must have "**

(d) None of these

(a) very low resistivity and high melting point

**27 Q) Which one among the following polymers is used to make personal armour such as combat helmets, ballistic face masks, and ballistic vests?"**

(b) high resistivity and low melting point

(a) Teflon

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(b) PVC

(c) Bakelite

(d) Kevlar

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**28 Q) "Assertion (A) A buffer solution is a mixture of a strong acid and its conjugate base or a strong base and its conjugate acid. Reason (R) Buffer solutions keep the pH at a nearly constant value."**

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true but R is not the correct explanation of A

(c) A is true but R is false

(d) A is false but R is true

**29 Q) "Which of the following gases in the atmosphere is/are responsible for acid rains? I. Oxides of sulphur II. Oxides of nitrogen III. Oxides of carbon  
Select the correct answer using the codes given below"**

(a) I and II

(b) I and III

(c) Only II

(d) All of these

**30 Q) Match the Following**

<b>(Elements)</b>	<b>(Ores/Minerals)</b>
A. Copper	1. Corundum, Bauxite
B. Iron	2. Malachite, Azurite
C. Lead	3. Galena, Lanarkite
D. Aluminium	4. Haematite, Limonite

(a) 2 4 3 1

(b) 2 3 4 1

(C) 4 3 1 2

(d) 4 1 3 2

**31 Q) Vermicompost is a/an**

(a) inorganic fertilizer

(b) toxic substance

(c) organic bio fertilizer

(d) synthetic fertilizer

**32 Q) Which one of the following is involved for desalination of sea water?**

(a) Simple osmosis

(b) Reverse osmosis

(c) Use of sodium aluminium silicate as zeolite

(d) Use of ion selective electrode

<b>List I</b>	<b>List II</b>
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**33 Q) "Soaps are important cleansing agent and this property is due to their emulsifying action. How does soap enhance the cleansing action? "**

(a) It has a strong acidic character which can dissolve the dirt

(b) It rises the temperature of the reaction

(c) It breaks triple bond formed between dirt and cloth

(d) It has capacity to render more prolonged the mixing of oil and water

**34 Q) The animal fats undergo 'auto-oxidation' under ordinary temperature which gives the fats a rancid taste and odour. Which one of the following causes the rancid taste and odour of the fats?**

(a) Platinum

(b) Carbon monoxide

(c) Carbon dioxide

(d) Aldehydes

**35 Q) "The pungent smell of garlic is due to "**

(a) a phosphate compound

(b) a nitrate compound

(c) a sulphur compound

(d) a chlorine compound

**36 Q) Which one among the following statement about an atom is not correct?**

(a) Atoms always combine to form molecule

(b) Atoms are the basic units from which molecules and ions are formed

(c) Atoms are always neutral in nature

(d) Atoms aggregate in large numbers to form the matter that we can see, feel and touch

**37 Q) "The light emitted by firefly is due to "**

(a) a radioactive substance

(b) chemiluminescence process

(c) a photoelectric process

(d) burning of phosphorus

**38 Q) Which one among the following metals is used in fireworks to make a brilliant white light?**

(a) Sodium

(b) Magnesium

(c) Aluminium

(d) Silver

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**39 Q) "Consider the following statements.**

**I.In the titration between weak bases and strong acids, the indicator such as methyl orange is commonly used.**

**II.In the titration between a weak acid and a strong base, the indicator such as phenolphthalein is commonly used.  
Which of the statements given above is/are correct?"**

**(a)Only I**

**(b) Only II**

**(c) Both I and II**

**(d) Neither I nor II**

**40 Q) Which one of the following reactions is responsible for the transformation of inexpensive liquid vegetable fats into commercially important solid fats (e.g. ghee)?**

**(a) Hydrogenation**

**(b) Oxidation**

**(c) Halogenation**

**(d) Saponification**

**41 Q) Which one of the following is the softest?**

**(a) Sodium**

**(b)Iron**

**(c) Aluminium**

**(d)Copper**

**42 Q) Ethanol mixed petrol is being sold invarious states wef January 1, 2003.  
The percentage of ethanol in petrol is**

**(a) 10%**

**(b) 7%**

**(c) 6%**

**(d) 5%**

**43 Q) A polymer which is used for making ropes and carpet fibres is**

**(a) polyacetylene**

**(b) polypropylene**

**(c) polyacrylonitrile**

**(d) PVC**

**44 Q) Which one among the following salts causes hardness to the water?.**

**(a)Calcium bicarbonate**

**(b)Calcium carbonate**

**(c)Sodium sulphate**

**(d)Potassium chloride**

**45 Q) Why is the meat preserved in the brine solution is not spoil as quickly as fresh meat?**

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(a)The bacteria will fall victim to osmosis  
and shrivel up and die

(b)The brine solution makes the meat  
acidic, so growth of bacteria is prevented

(c)The brine solution is an unfavourable  
medium for the reproduction of bacteria

(d)None of the above

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**46 Q) Assertion (A) Phenol is used for  
the manufacture of bakelite.**

**Reason (R) Bakelite is heat resistant  
thermosetting plastic used for making  
electric switches and switch board.**

(a)Both A and R are true and R is the  
correct explanation of A

(b)Both A and R are true but R is not the  
correct explanation of A

(c)A is true but R is false

(d)A is false but R is true

**48 Q) "Consider the following  
substances.**

**I. Cadmium**

**II. Boron**

**III. Nickel**

**Which of the substances given above  
is/are used as controlling rod in  
nuclear reactor? "**

(a) All of these

(b) I and II

(c) II and III

(d) Only II

**47 Q) "Consider the following  
statements**

**I. Washing soda is used as a water  
softener.**

**II. Saltpeter is used for heat transfer in  
solar power plants.**

**Which of the statements given above  
is/are correct?"**

**49 Q) "Assertion (A) In the alkali metals,  
potassium is the second lightest  
element in the group.**

**Reason (R) Potassium imparts yellow  
colour to the flame."**

(a)Both A and R are true and R is the  
correct explanation of A

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(b) Both A and R are true but R is not the correct explanation of A

(c) A is true but R is false

(d) A is false but R is true

**50 Q) Consider the following statements**

**I. Jet fuel is a mixture of a large number of different hydrocarbons.**

**II.Kerosene-type jet fuel (Jet A and Jet A-**

**1) has a carbon number between 8 and 16.**

**III.Naphtha-type jet fuel (including Jet B), has carbon numbers between 5 and 15. Which of the statements given above is/are correct?**

(a) I, II and III

(b) I and III

(c) II and III

(d) Only II

**51 Q) "Which one of the following is used as a mordant in dyeing and tanning industry?"**

(a) Magnesium oxide

(b) Magnesium chloride

(c) Magnesium sulphate

(d) Magnesium carbonate

**52 Q) Which one of the following is the reason for keeping the chloroform in brown-tinted glass containers?**

(a) Its brilliance colour hurts eyes

(b) Its deep red colour is piercing

(c) With UV-rays and O<sub>2</sub>, it forms poisonous gas phosgene

(d) With IR-rays, it forms a poisonous cyanide

**53 Q) "Consider the following statements**

**I.Acid rain is caused by emission of carbon dioxide, sulphur dioxide and nitrogen oxides.**

**II.The most important gas which leads to acidification is sulphur dioxide.**

**Which of the statements given above is/are correct?"**

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**54 Q) "Consider the following statements**

**I.All the enzymes found in the organisms are protein in nature.**

**II.Enzymes do not need any cofactor to perform their functions.**

**Which of the statements given above is/are correct?. "**

(a) Only I

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(b) Only II

(c) Both I and II

(d) Neither I nor II

**55 Q) The flavour of apple is mainly due to which one of the following?**

(a) Formalin

(b) Ethanol

(c) Benzene

(d) Benzaldehyde

**56 Q) The ability of geckos which can hang on a glass surface using only one toe and to climb on sheer surfaces has been attributed to the**

(a) hydrophobic interaction

(b) van der Waals' force

(c) electrostatic interaction

(d) covalent bond

**57 Q) KO<sub>2</sub> (Potassium superoxide) is used in oxygen cylinders in space and submarines because it**

(a) eliminates moisture

(b) absorbs CO<sub>2</sub>

(c) produces ozone

(d) produces CO<sub>2</sub>

**58 Q) "Consider the following statements**

**I. Mustard gas are a class of related cytotoxic and vesicant chemical warfare agents with the ability to form large blisters on the exposed skin and in the lungs.**

**II. Mustard gas is the organic sulphur compound.**

**Which of the statements given above is/are correct?"**

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**59 Q) Which one among the following is the chief compound used in Pepper spray, a riot control agent?**

(a) Capsaicin

(b) Black pepper

(c) Sulphur dioxide

(d) Hydrogen sulphide

**60 Q) "Assertion (A) On mixing with water, plaster of Paris hardens.**

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**Reason (R) By combining with water, plaster of Paris is converted into gypsum."**

**(a)Both A and R are true and R is the correct explanation of A**

**(b)Both A and R are true but R is not the correct explanation of A**

**(c)A is true but R is false**

**(d)A is false but R is true**

**61 Q) "The bleaching action of chlorine occurs in the presence of"**

**(a) moisture**

**(b) sunlight**

**(c) pure oxygen**

**(d) pure sulphur dioxide**

**62 Q) Which one among the following polymers is re-synthesised from the naturally occurring polymer?**

**(a) Kevlar**

**(b) Teflon**

**(c) Rayon**

**(d) Cellulose**

**63 Q) Which one of the following chemicals released along with domestic wastes has caused the phenomenon of Eutrophication' which leads to high productivity of water bodies?**

**(a)Phosphates and nitrates**

**(b)Sulphates and chlorides**

**(c)Chlorides and carbonates**

**(d)Bicarbonates and carbonates**

**64 Q) Which one of the following has been producing/can produce light by a chemical change?**

**(a) Electric bulb**

**(b) Moon**

**(c) Sun**

**(d) Lightning and thunder**

**65 Q) Which one of the following chemical compounds is responsible for the stimulation of tear glands by the onion?.**

**(a)A phosphate compound**

**(b)A nitrate compound**

**(c)A sulphide compound**

**(d)A chloride compound**

**66 Q) "Many communities put salt on their roads after a snowfall, Why?"**

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(a) To enhance the freezing and hardening of snow

(b) To control the slipping of vehicles

(c) To keep the melted snow from refreezing

(d) None of the above

67 Q) "Assertion (A) All liquids are conductors of Electricity.

**Reason (R) Under the condition of low pressure and high voltage, liquids can be made conducting."**

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true but R is not the correct explanation of A

(c) A is true but R is false

(d) A is false but R is true

68 Q) "Assertion (A) Apples have an anti-tumour action.

**Reason (R) The benzene compounds contain in the apple have a great medicinal value."**

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true but R is not the correct explanation of A

(c) A is true but R is false

(d) A is false but R is true

69 Q) "Consider the following statements

**I. Glass wool has tensile strength greater than steel,**

**II. Glass wool is fire powder.**

**III. Glass wool has high electrical conductivity and absorbs moisture.**

**IV. Glass wool is used to prepare fire glass.**

**Which of the statements given above are correct?"**

(a) I, II, III and IV

(b) I, II and III

(c) I, II and IV

(d) III and IV

70 Q) "Why hard water does not give lather with soap?"

(a) Hard water contains calcium and magnesium ions, which form precipitate with soap

(b) Hard water contains sulphate and chloride ions, which form precipitate

(c) pH of hard water is high

(d) pH of hard water is less

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**71 Q) The most abundant metal in the Earth's crust is**

(a) Si

(b) Fe

(c) Al

(d) Cu

**72 Q) A pale blue gas with a fish-like odour restores the colour of a blackened lead painting. The gas is also used as rocket fuel. It is**

(a) oxygen

(b) ammonia

(c) sulphur dioxide

(d) ozone

**73 Q) Which one of the following is used to slow down the speed of the neutrons in the nuclear reactor?**

(a) Controlling rod

(b) Moderator

(b) Coolant

(d) Accelerator

**74 Q) "Assertion (A) During setting of cement, the structure has to be cooled by spraying water.**

**Reason (R) The constituents of the cement undergo hydration during**

**setting of cement and it is an exothermic reaction."**

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true but R is not the correct explanation of A

(c) A is true but R is false

(d) A is false but R is true

**75 Q) "Which one among the following substances evolved heat when dissolved in water?"**

(a) Glucose

(b) Fructose

(c) Quick lime

(d) Salt peter

**76 Q) Which one of the following is correct? Butter is?**

(a) a supercooled oil

(b) an emulsion

(c) a molecular solid

(d) a gel

**77 Q) Consider the following statements**

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**I.Photochromic lenses are lenses that darken on exposure to ultraviolet light.**

**II.Photochromic properties is due to embedded microcrystalline of silver chloride in the glass.**

**Which of the statements given above is/are correct?."**

(a)Only I

(b) Only II

(c)Both I and II

(d) Neither I nor II

**79 Q) "Assertion (A) Atomic hydrogen is stronger reducing agent than nascent hydrogen.**

**Reason (R) Atomic hydrogen is obtained by thermal decomposition of molecular hydrogen."**

(a)Both A and R are true and R is the correct explanation of A

(b)Both A and R are true but R is not the correct explanation of A

(c)A is true but R is false

(d)A is false but R is true

**78 Q) Match the Following**

<b>List 1 (Names)</b>	<b>List II (Compounds)</b>
A. Baking soda	1. Sodium nitrate
B. Washing soda	2. Calcium hydroxide
C. Chile saltpeter	3. Sodium carbonate
D. Slack lime	4. Sodium bicarbonate

(a) 2 4 3 1

(b) 2 3 4 1

(c) 4 3 1 2

(d) 4 1 3 2

**80 Q) The rusting of iron nail**

(a)decreases its weight

(b)increases its weight

(c) does not affect weight but iron is oxidised

(d)does not affect weight but iron is reduced

**81 Q) Which one of the following pollutants contains in water due to modern agricultural practices lead to 'methemoglobinemia' when combines with our blood haemoglobin?**

(a)Bicarbonates

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**(b)Sulphates**

**(c) Phosphates**

**(d)Nitrates**

**82 Q) "What is the role of positive catalyst in a chemical reaction? "**

**(a)It increases the rate of reaction**

**(b)It decreases the rate of reaction**

**(c)It increases the yield of the products**

**(d) It provides better purity of the products**

**83 Q) The pH of fresh groundwater slightly decreases upon exposure to air because**

**(a) carbon dioxide from air is dissolved in the water**

**(b) oxygen from air is dissolved in the water**

**(c) the dissolved carbon dioxide of the groundwater escapes into air**

**(d) the dissolved oxygen of the groundwater escapes into air**

**84 Q) "Consider the following statements**

**I.Brent Crude is a major trading classification of sweet light crude oil.**

**II.Brent Crude is sourced from the North Sea.**

**III.Brent Crude contains sulphur.**

**Which of the statements given above are correct?."**

**(a) I, II and III**

**(b) I and II**

**(c) I and III**

**(d) II and III**

**85 Q) Which one of the following carbohydrates is used for silvering of mirror?**

**(a) Sucrose**

**(b) Maltose**

**(c) Fructose**

**(d) Glucose**

**86 Q) Which bioinsecticide was first developed on commercial scale?**

**(a) Morphine**

**(b) Quinine**

**(c) DDT**

**(d) Sporeine**

**87 Q) Which one among the following will you put into pure water in order to pass electric current through it?**

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(a) Kerosene

(b) Mustard oil

(c) Sugar

(d) Lemon juice

**90 Q) "Select the correct answer about  
""Ajinomoto""**

**I. It is a tasty powder and makes a great  
difference to the way of food taste.**

**II. Chemically, it is monosodium  
glutamate.**

**III. It causes the "kwok's disease"" in  
man.**

**Which of the following statements given  
above is/are correct?"**

(a) Only I

(b) Only II

(c) I, II and III

(d) II and III

**89 Q) "Consider the following  
statements**

**I. One water molecule forms four H-  
bonds.**

**II. Water has high boiling point due to  
high dipole moment.**

**III. When ice is melt, collapse of  
structure leads to increase in density.**

**Which of the statements given above  
is/are correct?"**

(a) I, II and III

(b) I and III

(c) II and III

(d) II only

**91 Q) "Consider the following  
statements**

**I. A chalcogenide glass is a glass  
containing sulphur, selenium or  
tellurium.**

**II. Chalcogenide glass form the basis of  
re-writable CD and DVD solid-state  
memory technology. Which of the  
statements given above is/are correct?"**

(a) Only I

(b) Only II

(c) Both I and II

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(d) Neither I nor II

94 Q) **Making of chappathi is based on**

(a) Graham's law

(b) Henry's law

(c) Charles' law

(d) Boyle's law

95 Q) **The hair dye available in the market contains two bottles, one containing dye and other containing hydrogen peroxide. The bottles are mixed before applying the dye. The function of hydrogen peroxide is**

92 Q) **Match the Following**

<b>List 1</b>	<b>List II</b>
(Elements)	(Colour on flame)
A. Barium	1. Yellow
B. Sodium	2. Greenish
C. Silver	3. Turns black
D. Lead Codes	4. Apple green

(a) 2 4 3 1

(b) 2 3 4 1

(c) 4 3 1 2

(d) 4 1 3 2

(a)to dilute the dye

(b)to oxidise the dye to give desired colour

(c)to reduce the dye to give desired colour

(d)to acidify the dye solution

93 Q) **"Which of the following is correct for the semiconductor?"**

(a) A large gap between filled band and vacant band

(b) An impurity band present between filled band and vacant band.

(c) A small gap between filled band and vacant band.

(d) Filled band and vacant band overlap with one another

96 Q) **Which one of the following pairs of metals is present in the cytochrome-c and chlorophyll respectively?**

(a)Fe and Zn

(b)Mg and Mn

(c) Fe and Mg

(d)Mg and Zn

97 Q) **"Consider the following statements"**

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**I. Rust is formed by the reaction of iron and oxygen in the presence of water or air moisture.**

(c) A is true but R is false

(d) A is false but R is true

**II. In salt water, iron tends to rust more quickly.**

**Which of the statements given above is/are correct?"**

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

**100 Q) From which one among the following water source, the water is likely to be contaminated with fluorine?**

(a) Ground water

(b) Rain water

(c) River water

(d) Pond water

**98 Q) The coil in a heater is made of**

(a) nichrome

(b) tungsten

(c) copper

(d) iron

**ANSWERS:**

1 .C,

2 A,3 B

4 C

5C6C7B,8C9B10A, 11D 12C 13D, 14C

15D 16B, 17A 18B 19D, 20B 21C 22A,

23C 24B 25D, 26C 27D 28D, 29A 30 A

31 C, 32B, 33D 34D, 35C 36D 37D,

38B 39C 40A, 41A 42D 43B, 44A 45A

46B, 47C 48B 49C ,50A 51C 52C, 53C

54A 55B, 56B 57B 58C, 59A 60A 61A,

62C 63A 64C, 65C 66C 67D, 68C 69C

70C, 71C 72B 73B, 74A 75C 76D,77C

78C 79B,80B 81D 82C,83A 84A 85D,

86D 87D 88B, 89A 90C 91C,92D 93B

94C,95B 96C 97C,98A 99B 100C

**99 Q) "Assertion (A) Thorium is an efficient nuclear fuel widely used throughout the world.**

**Reason (R) India is richly endowed with thorium mineral."**

(a)Both A and R are true and R is the correct explanation of A

(b)Both A and R are true but R is not the correct explanation of A

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