

**Instructions – Each question carries 2 marks , for wrong answer ¼th marks will be deducted.**

**Darken the appropriate circle in the OMR SHEET and fill your name correctly in the space provided**

1. In coriander, the useful part are
  - (a) roots and leaves
  - (b) leaves and flower
  - (c) leaves and dried fruits
  - (d) flower and dried fruits
2. **Assertion(A):** Fungi are widespread in distribution and they even live on or inside other plants and animals  
**Reason(R) :** Fungi can grow anywhere on land, water or on other organisms because they have different type of pigments like chlorophyll, carotenoids, fucoxanthin and phycoerythrin.
  - (a) If both A and R are true and R is the correct explanation of A
  - (b) If both A and R are true , but R is not the correct explanation of A
  - (c) If A is true, but R is false
  - (d) If both A and R are false
3. **Assertion(A) :** cyanobacteria are blue-green algae with prokaryotic structure.  
**Reason(R)** They appear green in colour due to the presence of chloroplast.
  - (a) If both A and R are true and R is the correct explanation of A
  - (b) If a both A and R are true, but R is not the correct explanation of A
  - (c) If A is true, but R is false
  - (d) If both A and R are false
4. Meena and hari observed an animals in their garden. Hari called it an insect while Meena said it was an earthworm. Choose the character from the following which confirms that it is an insect.
  - (a) Bilateral symmetry body
  - (b) Body with jointed legs
  - (c) cylindrical body
  - (d) body with little segmentation
5. From the following statement which one is correct?
  - (a) Aves are cold blooded animals and have a four chambered heart
  - (b) Crocodile is an amphibian and have a four chambered heart
  - (c) Fishes have a streamlined body and have a three chambered heart
  - (d) Kangaroos are mammalian who give birth to very poorly developed young ones
6. Among the following animals, choose the one having three pairs of leg
  - (a) spider
  - (b) scorpion
  - (c) bug
  - (d) mite
7. Which of the following does not possess a specialised conducting tissue for transport of water and other substance in plants?
  - (a) Marchantia
  - (b) Marsilea
  - (c) Cycas
  - (d) fern
8. Which one among the following groups is the most abundant in terms of number of species identified?
  - (a) Fungi
  - (b) green plants
  - (c) Bacteria
  - (d) insects
9. Which of the statement is/are correct?
  - I. Viruses lack enzymes necessary for the generation of energy.
  - II. Viruses can be cultured in any synthetic medium
  - III. Viruses are transmitted from one organism to another by biological vectors only.

Select the correct answer using the codes given below

  - (a) Only I
  - (b) Only II
  - (c) I and II
  - (d) All if these
10. Panda belongs to the same family as that of
  - (a) whale
  - (b) bear
  - (c) kangaroo
  - (d) porcupine
11. The type of tail found in shark is
  - (a) homocercal
  - (b) heterocercal
  - (c) diphyrcal
  - (d) porcupine
12. Match the list I (cell structure) with List II (function)
 

| List I        | List II                               |
|---------------|---------------------------------------|
| (A) cell wall | 1. protein synthesis                  |
| (B) nucleus   | 2. regulation of Substance in and out |

- (C)ribosomes  
(D)plasma  
metabolism
- Of the cell  
3.rigidity to cell  
4.control of cellmembrane
- CODES
- |             |             |
|-------------|-------------|
| A B C D     | A B C D     |
| (a) 3 4 1 2 | (b) 4 3 2 1 |
| (c) 1 2 3 4 | (d) 2 4 3 1 |
13. which one among the following animals tissue transport hormones, heat and maintain Water balance?  
(a)connective tissue (b)blood  
(c)muscular tissue (d)nervous tissue
14. Consider the following statement in relation to plant tissue ' chlorenchyma'.  
I.it is formed by the palisade and spongy mesophyll.  
II.it is a form of parenchyma, which contain chloroplasts.  
III.it serve to transport organic solutes made by photosynthesis.  
IV.it is a thin transparent layer which has chiefly has a protective function.  
Which of the statement given above is/are correct?  
(a)I and II (b)I,II and III  
(c)II and IV (d)only I
15. **Assertion(A)** nitrogen fixation is a reduction process.  
**Reason(R)** it is independent of respiration.  
(a)if both A and R are true and R is the correct explanation of A  
(b)if both A and R are true, but R is not the correct explanation of A  
(c)if A is true, but R is false  
(d)if both A and R are false
16. If excess fertiliser is applied to a plant without water, the plant will  
(a)be stunted in growth  
(b)develop modification  
(c)die due to plasmolysis  
(d)remain unaffected
17. Which one of the following elements is present in green pigment of leaf?  
(a)magnesium (b)phosphorus  
(c)iron (d)calcium

18. Which of the following structure of a plant is responsible for transpiration?  
(a)Xylem (b)root  
(c)stomata (d)bark
19. Which one among the following hormones stimulates the plant cells to grow in a manner such that the plant appears to be bent towards light?  
(a)cytokinin (b)auxin  
(c)gibberellin (d)abscisic acid
20. Wilting of plants occur due to excessive  
(a) absorption (b)transpiration  
(c)respiration (d)guttation
21. Which of the following leaf modification occurs/occur in desert areas to inhibit water loss?  
I.hard and waxy leaves  
II.tiny leaves or no leaves  
III.thorns instead of leaves  
Select the correct answer using the codes given below  
(a)I and II (b)only II  
(c)I and III (d)all of these
22. Which of the following plant pigments absorbs in red and far-red region of light?  
(a)chlorophyll (b)phytochrome  
(c)cryptochromes (d)carotenoids
23. The process through which excess of light energy is dissipated in photosynthesis is known as  
(a) Scavenging (b) Photolysis  
(c) Photophosphorylation (d) Quenching
24. Which of the following statements about sexual reproduction in flowering plants are correct?  
I. stamen is present in the centre of a flower.  
II.stamen produces pollen grains in the ovary.  
III.the swollen bottom part of carpel is the ovary  
III.the fusion of germs cells gives rise to zygote  
Select the correct answer using the codes given below.  
(a)II,III and IV (b)III and IV  
(c)I, and III (d)all of these
25. Which of the following statement is/are correct regarding fats?  
I. fats are needed for the formation of cell membrane.  
II. fats help the body to absorb calcium from foo(d)  
III. fats are required to repair damaged tissue.

IV. body cannot release energy in fats as quickly as the energy in carbohydrates.

Select the correct answer using the codes given below.

- (a) I and IV      (b) only I  
(c) II and IV      (d) III and IV

26. The gastrointestinal hormones namely secretin and cholecystokinin secreted by duodenal epithelium activate respectively which organs to discharge their secretions?  
(a) pancreas and gall bladder  
(b) gall bladder and stomach  
(c) pancreas and stomach  
(d) stomach and small intestine
27. The acid in gastric juice is  
(a) acetic acid      (b) nitric acid  
(c) hydrochloric acid      (d) sulphuric acid
28. The complete digestion of carbohydrates, proteins and fats occurs in  
(a) stomach      (b) liver  
(c) small intestine      (d) large intestine
29. The sigmoid colon is part of  
(a) anal canal      (b) large intestine  
(c) ileum      (d) small intestine
30. Diaphragm contracts to help in ----- while the contraction of abdominal muscles help to -air  
(a) expiration, inspiration  
(b) expansion, contraction  
(c) intake, expel out  
(d) respiration, muscle contraction
31. Insufficient blood supply in human body is referred as  
(a) ischemia      (b) hyperaemia  
(c) hemostasia      (d) hemorrhage
32. Consider the following statements.  
I. Arteries are blood vessels that carry blood away from the heart.  
II. aorta is the main artery leaving the heart.  
III. pulmonary artery is the only artery that carries oxygen rich blood  
Which of the above are false?  
(a) I and II      (b) II and III  
(c) only III      (d) only I
33. A man whose blood group is not known meets with a serious accident and needs blood transfusion

immediately. Which one of the blood groups mentioned below and readily available in the hospital will be safe for transfusion?

- (a) O, Rh-      (b) O, Rh+  
(c) AB, Rh-      (d) AB, Rh+

34. Consider the following statement.  
I. A human heart is two sided, four chambered structure with muscular walls.  
II. An atrioventricular valve separates each auricle from its connecting artery.  
III. A semilunar valve separates each artery from ventricle.  
Which of the above are true?

- (a) I and II      (b) II and III  
(c) only I      (d) I, II and III

35. Match of the following list:

| List I          | List II          |
|-----------------|------------------|
| (A) Antibody    | 1. Platelets     |
| (B) Coagulation | 2. Gas transport |
| (C) Systole     | 3. Contraction   |
| (D) RBC         | 4. Immunity      |

CODES:-

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

36. Filtration unit of kidney is

- (a) Nephron      (b) Neuron  
(c) Yellow fiber      (d) axon

37. Match the following list and select the correct code

| List I             | List II                              |
|--------------------|--------------------------------------|
| (A) cranium        | 1. Brain box                         |
| (B) sutures        | 2. Only movable bone<br>In the skull |
| (C) foramen magnum | 3. Immobile joint                    |
| (D) mandible       | 4. Join brain to the<br>Spinal cord  |

Codes

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

38. **Assertion(A)** After hearing a sound nerve impulse passes from neurons to the brain.

**Reason(R)** The neuron which pass nerve impulses from the body organ to the brain is called afferent neuron.

- (a) both A and R are true and R is the correct answer
- (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

39. which part of brain controls five movement, maintains balance and equilibrium of the body and muscle tone in a human being?

- (a) cerebrum
- (b) thalamus
- (c) cerebellum
- (d) hypothalamus

40. Fats present below the skin surface in our body, acts as a barrier against

- (a) loss of heat from the body
- (b) loss of essential body fluids
- (c) loss of salts from the body
- (d) entry of harmful microorganism From environment

41. Retina of eye is analogous to which part of camera?

- (a) flim                      (b) lens
- (c) Shutter                (d) glass

42. **Assertion(A)** human sense of smell is relatively poor.

**Reason(R)** Olfactory receptor are limited to only small areas of the nasal chamber

- (a) if both A and R are true R is the correct explanation of A
- (b) if both A and R are true, but R is not correct explanation of A
- (c) if A is true, but R is false
- (d) if both A and R are false

43. Consider the following statements.

- I. Pituitary gland is situated in brain.
  - II. the effect of over secretion of hormone from pituitary gland is increase growth in length.
  - III. growth hormone is secreted from pituitary gland
- Which of the above are true about pituitary gland?

- (a) I,II and III              (b) I and II
- (c) II and III                (d) I and III

44. Match the hormone in list I and list II and select the correct answer using codes given below the columns.

**List-I**

- (A) Adrenalin
- (B) Oestrogen
- (C) Insulin
- (D) Pheromones

**List-II**

- 1. Anger, fear and danger
- 2. Attractive partners through sense of smell
- 3. Female
- 4. Glucose

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

45. Match **List I**(endocrine gland) with **List II** (hormone secreted) and select the correct answer using the codes given below the columns.

**List I**

- A. Gonads
- B. Pituitary
- C. Pancreas
- D. Adrenal

**List II**

- 1. Insulin
- 2. Progesterone
- 3. Growth hormone
- 4. Cortisone

**CODES**

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

46. A person with 'AB' blood group is sometimes called a universal recipient because of the

- (a) lack of antigen blood in his body
- (b) lack of antibodies in his body
- (c) lack of both antigens and antibodies in his blood
- (d) presence of antibodies in his blood

47. A boy standing at the point 'O' in the given diagram throws a ball three times with the force, but projection it along different inclination from the ground The result of the throws have been plotted in the diagram. Which one of the following is a valid conclusion ?

- (a) the larger the initial inclination, the longer the throw
- (b) the larger height reached, the longer throw.
- (c) the larger height reached , the shorter throw
- (d) the larger the initial inclination the greater the height reached

48. The working principle of washing machine is

- (a) centrifugation        (b) dialysis
- (c) reverse osmosis      (d) diffusion

49. A hunter aims his gun at a point between the eye brows of a monkey sitting on a branch of a tree. Just as he fires, the monkey jumps down. The bullet will:
- hit the monkey at a point aimed
  - hit the monkey below the point aimed
  - hit the monkey above the point aimed
  - miss the monkey altogether
50. The mass of a body on earth is 100kg (acceleration due to gravity= $10\text{m/s}^2$ ) if acceleration due to gravity on the moon is  $g/6$ , then the mass of the body on the moon is
- 60kg
  - 100kg
  - $100/6$  kg
  - 600 kg
51. Assertion (A) with the increases of temperature, the viscosity of glycerine increases  
Reason (R) rise of the temperature increases kinetic energy of molecules
- both A and R are true and R is the correct explanation of A
  - both A and R are true but R is not correct explanation of A
  - A is true but R is false
  - A is false but R is true
52. Assertion (A) an iron ball floats on mercury but gets immersed in water  
Reason (R) the specific gravity of iron is more than that of mercury.
- both A and R are true and R is the correct explanation of A
  - both A and R are true but R is not correct explanation of A
  - A is true but R is false
  - A is false but R is true
53. A oil tanker partially filled with oil moves forward on a level road with uniform acceleration the free surface of oil then
- remain horizontal
  - is inclined to the horizontal with smaller depth at the rear end
  - is inclined to the horizontal with larger depth at the rear end
  - assumes a parabolic curve
54. If the radius of the earth were to shrink by one percent, its mass remaining the same, value of 'g' on the earth's surface would
- increases by 0.5%
  - increases by 2%
  - decreases by 0.5%
  - decreases by 2%
55. Which one of the following is the correct sequence of the given substance in the given substances in the decreasing order of their densities
- steel>mercury> gold
  - gold>mercury> steel
  - steel> gold >mercury
  - gold> steel >mercury
56. What is the approximate mean velocity which the earth moves around the sun in its orbit?
- 20km/s
  - 30km/s
  - 40km/s
  - 50km/s
57. Ball bearing are used in bicycles, cars, etc because
- the actual area of contact between the wheel and axis increased
  - the effective area of contact between the wheel and axis is increased
  - the effective area of contact between the wheel and axis is reduced
  - None of the above
58. The clouds float in the atmosphere  
Because of their low.
- temperature
  - velocity
  - pressure
  - density
59. Low temperature (cryogenics) find application
- space travel, surgery and magnetic levitation
  - surgery, magnetic levitation and telemetry
  - space travel, surgery and telemetry
  - none of the above
60. **Assertion(A)** a piece of copper and a piece of glass are heated to the same temperature when touched, thereafter, the copper piece appears hotter than glass piece  
**Reason(R)** the density of copper is more than that of glass
- both A and R are true and R is the correct explanation of A
  - both A and R are true but R is not correct explanation of A

- (c) A is true but R is false  
(d) A is false but R is true
61. Assertion(A) the boiling point of water increases as the altitude increases  
Reason (R) the atmosphere pressure increases with altitude  
(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 correct explanation of A  
(c) A is true but R is false  
(d) A is false but R is true
62. When water is heated from  $0^{\circ}\text{C}$  to  $10^{\circ}\text{C}$  its volume  
(a) increases (c) does not change  
(b) decreases (d) first increases than decreases
63. Consider the following state  
1. steam at  $100^{\circ}\text{C}$  and boiling point as water at  $100^{\circ}\text{C}$  contain same amount of heat  
2. latent heat of fusion of ice is equal to the latent heat of evaporation of water  
3. in an air conditioner, heat is extracted from the room air at the evaporates coils and is rejected out at the condenser coils.  
Which of these statements is/are correct.  
(a) 1 and 2 (b) 2 and 3 (c) only 2 (d) only 3
64. Cloudy night are warmer compared to clear cloudless night, because clouds  
(a) prevent cold waves from the sky from descending on earth  
(b) reflect back the heat given off by earth  
(c) produces heat and radiate it towards  
(d) absorb heat from the atmosphere and send it towards earth.
65. when the same note is played on a sitar and a flute, the sound produced can be distinguished from each other because of difference in  
(a) pitch, loudness and quality  
(b) pitch and loudness  
(c) quality only  
(d) loudness only
66. An air bubble in water will act like a  
(a) convex mirror (b) convex lens  
(c) concave mirror (d) concave lens

67. List I  
(A) high speed  
(B) wavelength  
(C) pressure  
(D) energy
- List II  
1. Mach  
2. Angstrom  
3. Pascal  
4. Joule
- CODES
- |     | A | B | C | D |
|-----|---|---|---|---|
| (a) | 1 | 2 | 3 | 4 |
| (b) | 4 | 1 | 2 | 3 |
| (c) | 3 | 1 | 2 | 4 |
| (d) | 4 | 2 | 1 | 3 |
68. Consider the following statements  
1. If a person looks at a coin which is in a bucket as water, the coin appear to be closer than it really is  
2. If a person under water looks at a coin above the surface of water, the coin will appear to be at a higher level than it really is  
Which of the above statement is/are correct  
(a) 1 and 2 (b) 1 alone (c) 2 alone (d) neither 1 or 2
69. A noise level of 100 decibel would correspond to  
(a) just audible sound  
(b) ordinary conversation  
(c) sound from noisy street  
(d) noise from a machine shop
70. When a CD is seen in sunlight rainbow like colour are seen. This can be explained on the basis of the phenomenon of:  
(a) reflection and diffraction  
(b) reflection and transmission  
(c) diffraction and transmission  
(d) refraction, diffraction and transmission
71. Assertion (A) a stick is dipped in water in a slanting position. If observed side ways, the stick appears short and bent at the surface of water Reason (R) a light coming from the stick undergoes scattering from water molecules giving the stick a short and bent appearance  
(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 correct explanation of A  
(c) A is true but R is false  
(d) A is false but R is true
72. which one of the following is not radioactive?

(a) astatine (b) francium (c) tritium (d) zirconium

73. which one of the following statement is correct ?

(a) liquid sodium is employed as a coolant in nuclear reaction.

(b) calcium carbonates is an ingredient of tooth paste.

(c) Bordeaux mixture consist of sodium sulphate and lime.

(d) zinc amalgams are used as a dental filling.

74. In a dry cell (battery), which of the following are used as electrolytes?

(a) ammonium chloride and zinc chloride

(b) sodium chloride and calcium chloride

(c) magnesium chloride and zinc chloride

(d) ammonium chloride and calcium chloride

75. hydrogen fuel cell vehicles produce which one of the following as 'exhausts'?

(a)  $\text{NH}_3$  (b)  $\text{CH}_4$  (c)  $\text{H}_2\text{O}$  (d)  $\text{H}_2\text{O}_2$

76. The function of heavy water in a nuclear reaction is to

(a) slow down the speed of neutrons

(b) increase the speed of neutrons

(c) cool down the reaction

(d) stop the nuclear reaction

77. Which one of the following is a mixed fertilizer?

(a) Urea (b) CAN

(c) Ammonium sulphate (d) NPK

78. The chemical used as a fixer of photography is

(a) sodium sulphate (b) sodiumthio sulphate

(c) ammoniumper sulphate (d) borax

79. Which one of the following element is alloyed with iron to produce steel which can resist high temperature and also have high hard ness and abrasion resistance?

(a) aluminium

(b) chromim

(c) nickel

(d) tungsten

80. Which one of the following is not an essential micronutrient for plants?

(a) boron (b) zinc (c) sodium (d) copper

81. the most reactive among the halogen is

(a) fluorine (b) chlorine (c) iodine (d) bromine

82. match the following

List -1

(a) blue vitriol

(b) Epsom salt

(c) baking soda

(d) caustic soda

List-2

1. sodium bicarbonate.

2. sodium hydroxide.

3. magnesiumsulphate.

4. coppersulphate.

Codes:

(a) a-3 , b-4 , c-2 , d-1

(b) a-4 , b-3 , c-2 , d-1

(c) a-3 , b-4 , c-1 , d-2

(d) a-4 , b-3 , c-1 , d-2

83. Match the following

LIST-1

(a)potassium bromide.

(b) potassium nitrate.

(c) potassiumsulphate.

(d) monopatassiumtartarte.

LIST-2

1. fertilizer

2. photography

3. bakery

4. gun powder

Codes:

(a) a-3 , b-4 , c-1 , d-2

(b) a-2 , b-3 , c-4 , d-1

(c) a-4 , b-2 , c-3 , d-1

(d) a-4 , b-2 , c-1 , d-3

84. consider the following statements coke is one of the materials of the charge added to blast furnance for the production of steel/iron its function to

1. act as the reducing agent.

2. remove silica associated with the iron ore.

3. function as fuel , to supply heat.

4. act as an oxidizing agent.

Which on of these statements are correct.

(a) 1 and 2 (b) 2 and 4 (c) 1 and 3 (d) 3 and 4

85. which one of the following metals dose not form amalgam?

(a) zinc (b) copper (c) magnesium (d) iron

86. Assertion(A): sodium metal is stored under kerosene.

Reason(R): metallic sodium melts when exposed to air.

- (a) both 'A' and 'R' correct and 'R' is the correct explanation of 'A'.  
 (b) both 'A' and 'R' correct and 'R' is not correct explanation of 'A'.  
 (c) 'A' is true but 'R' is false.  
 (d) 'A' is false but 'R' is true.
87. assertion(A): To dilute sulphuric acid , acid is added to water and not water to acid .  
 Reason(R):specific heat of water is quite large.  
 (a) both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.  
 (B) both 'A' and 'R' are true and 'R' is not correct explanation of 'A'.  
 (c) 'A' is true but 'R' is false.  
 (d) 'A' is false but 'R' is true.
88. match the following.  
 LIST-1  
 (a) german silver  
 (b) solder  
 (c) bleaching powder  
 (d) hypo  
 LIST-2  
 1. tin  
 2. nickel  
 3. sodium  
 4. chlorine  
 Codes:  
 (a) a-1 , b-2 , c-4 , d-3  
 (b) a-2 , b-1, c-3, d-4  
 (c) a-1, b-2 , c-3, d-4  
 (d) a-2 , b-1, ,c-4, d-3
89. which of the following materials is very hard and very ductile?  
 (a) carborundum      (b) tungsten  
 (c) cast iron      (d) nichrome
90. consider the following statement. hard water is not suitable for  
 1. drinking  
 2. Washing  
 3. Use in boilers  
 4. Irrigation of crops  
 Codes: which of these statements are correct  
 (a) 1 and 3 (b) 2 and 3 (c) 1 , 2 and 4 (d) 1,2,3 and 4
91. an aqueous solution of copper sulphate is acidic in nature because the salt under goes  
 (a) dialysis      (b) electrolysis  
 (c) hydrolysis      (d) photolysis
92. Assertion(A):synthetic detergents lather well in hard water.  
 Reason(R): synthetic detergents form soluble calcium and magnesium salts with hard water:  
 (a) both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.  
 (B) both 'A' and 'R' are true and 'R' is not correct explanation of 'A'.  
 (c) 'A' is true but 'R' is false.  
 (d) 'A' is false but 'R' is true.
93. which one of the following statement is not correct?  
 (a) the presence of NaCl increase the rate setting at plaster of paris.  
 (b) gypsum is added to the cement to slow down its rate of setting.  
 (c) alkaline earth metals form hydrated salts.  
 (d) barium and strontium are found free in nature.
94. Assertion(A): In the periodic table at chemical elements , electron affinity is always found to increase from top to bottom in a group .  
 Reason(R):In a group the atomic radii generally increase from top to bottom .  
 (a) both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.  
 (b) both 'A' and 'R' are true and 'R' is not correct explanation of 'A'.  
 (c) 'A' is true but 'R' is false.  
 (d) 'A' is false but 'R' is true.
95. Assertion(R): coal based thermal station contribute to acid rain .  
 Reason(R): oxides of carbon are emitted when coal burns.  
 (a) both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.  
 (a) both 'A' and 'R' are true and 'R' is not correct explanation of 'A'.  
 (c) 'A' is true but 'R' is false.  
 (d) 'A' is false but 'R' is true
96. consider the following statement.

1. baking soda is used in fire extinguisher
  2. quick lime is used in manufacture of glass
  3. gypsum is used in the manufacture at plaster of paris.
- Which of the statements given above is/are correct ?
- (a) 1 and 2 (b) 2 and 3 (c) 1 only (d) 1 , 2 and 3
97. salts of which of the following elements provide colours to fire works.
- (a) zinc and sulphur (b) potassium and mercury  
(c) strontium and barium (d) chromium and nickel
98. 'Rhizome' is an underground modification of ?
- (a) Root (b) Stem (c) Leaf (d) Fruit
99. Which one of the following types of glass can cut off ultraviolet rays?
- (a) soda glass (b) pyrex glass  
(c) sena glass (d) crooke's glass
100. Which one among the following is the called philosopher's wool?
- (a) zinc bromide (b) zinc nitrate  
(c) zinc oxide (d) zinc chloride

**ALL THE BEST**

**Note:**

WE DO NOT CLAIM ANY ORIGINALITY OF QUESTIONS,  
MOST OF THE QUESTIONS WERE ALREADY ASKED IN  
PREVIOUS EXAMINATIONS .