



# BIOLOGY

## BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

### SELF-EVALUATION 1 MARKS

#### Mcq Physics

1. Inertia of the body depends on

A. weight of the object

B. acceleration due to gravity of the planet

C. mass of the object

D. both a & b

**Answer:**



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2. If the Earth shrinks to 50% of its real radius its mass remaining the same , the weight of a body on the Earth will \_\_\_\_\_

A. decrease by 50 %

B. increase by 50 %

C. decrease by 25 %

D. increase by 300 %

**Answer:**



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**3. In which of the following sport the turning effect of force used ?**

A. swimming

B. tennis

C. cycling

D. hockey

**Answer:**



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**4.** Where should an object be placed so that a real and inverted image of same size is obtained by a convex lens.

A.  $f$

B.  $2f$

C. infinity

D. between  $f$  and  $2f$

**Answer:**



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5. A convex lens forms a real, diminished point sized image on focus. Then the position of the object is at

A. focus

B. infinity

C. at  $2f$

D. between  $f$  and  $2f$

**Answer:**



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6. Which of the followingg lens would you prefer to use while reading small letters found inn a dictionary?

- A. A convex lens of focal length  $5\text{cm}$
- B. A concave lens of focal length  $5\text{cm}$
- C. A convex lens of focal length  $10\text{cm}$
- D. A concave lens of focal length  $10\text{cm}$

**Answer:**



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7. The average kinetic energy of the molecules of a substance is called \_\_\_\_\_.

A. difference in K.E and P.E

B. sum of P.E and K.E

C. difference in T.E and P.E

D. difference in K.E and T.E

**Answer:**



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**8.** If a substance is heated or cooled, the linear expansion occurs along the axis of



A. X or -X

B. Y or -Y

C. noth (a) and (b)

D. (a)or (b)

**Answer:**



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9. The value of universal gas constant is \_\_\_\_\_ .

A.  $8.21J(mol^{-1})(k^{-1})$

B.  $8.27 J (mol^{-1}) K^{-1}$

C.  $8.31 J mol^{-1}$

D.  $8.31 J mol^{-1} K^{-1}$

**Answer:**



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**10.** In a simple circuit, why does the bulb glow when you close the switch ?

A. The switch produces electricity

B. Closing the switch completes the circuit

C. Closing the switch break the circuit

D. The bulb is getting charged

**Answer:**



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**11.** the resistance of material depends on

\_\_\_\_\_.

A. Temperature

B. Length of conductor

C. Area of cross -section

D. All of these

**Answer:**



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**12. Why are copper wires used as connecting wires ?**

A. Low resistivity

B. Low conductivity

C. High Resistivity

D. Both A and B

**Answer:**



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**13.** velocity of sound in the atmosphere of a planet is  $500\text{ms}^{-1}$ . The minimum distance between the sources of sound and the obstacle to hear the echo, should be

A.  $17m$

B.  $20m$

C.  $25m$

D.  $50m$

**Answer:**



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**14.** The audio frequency range is \_\_\_\_\_

A.  $50KHz$

B.  $20\text{KHz}$

C.  $15000\text{KHz}$

D.  $10000\text{KHz}$

**Answer:**



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**15.** The sound waves are reflected from an obstacle into the same medium from which they were incident .Which of the following changes ?

A. speed

B. frequency

C. wavelength

D. none of these

**Answer:**



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**16.** Gamma radiations are dangerous because

\_\_\_\_\_.



A. it affects eyes and bones

B. it affects tissues

C. it produces genetic disorder

D. (d) it produces enormous of heat

**Answer:**



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**17.** proton-Proton chain reaction is an example of \_\_\_\_\_.

A. Nuclear fission

B. alpha -decay

C. Nuclear fusion

D. Beta- decay

**Answer:**



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**18.** Radio isotope \_\_\_\_\_ is used in the treatment of cancer.

A. sodium

B. cobalt

C. iron

D. phosphorous

**Answer:**



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**19.** The momentum of a heavy object at rest will be \_\_\_\_\_

A. large

B. infinity

C. zero

D. small

**Answer:**



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20. \_\_\_\_\_ is the material used to make the filament in bulbs.

A. cadmium

B. tungsten

C. mercury

D. none of the above

**Answer:**



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**Fill In The Blanks Physics**

1. To produce a displacement \_\_\_\_\_ is required .



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2. Change in dimension due to raise in temperature is called \_\_\_\_\_.



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3. The resistance of a conductor directly proportional to \_\_\_\_\_.



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4. Amount of light entering into the eye is controlled by \_\_\_\_\_.



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5. A whistle giving out a sound of frequency  $450\text{Hz}$ , approaches a stationary observer at a speed of  $33\text{ms}^{-1}$ . The frequency heard by the observer is (speed of sound =  $330\text{ms}^{-1}$ \_\_\_\_\_).



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6. Momentum is a \_\_\_\_\_ quantity .



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7. Anemia can be cured by \_\_\_\_\_ isotope.



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8. One calorie is the amount of heat energy required to raise the temperature of \_\_\_\_\_ of water through \_\_\_\_\_.



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9. LED stands for \_\_\_\_\_.



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10. \_\_\_\_\_ is the frequency of the sound as heard by the listener.



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11. What is Astigmatism ? How it is corrected ?



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12. \_\_\_\_\_ has the greatest penetration power.



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13. The value of Avogadro's number is \_\_\_\_\_.



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14. The radioactive isotope used in estimating the age of specimens is \_\_\_\_\_.



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15. \_\_\_\_\_ lens is thicker at the centre than at the edges.



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16. .... is used to change the speed of car.



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17. The radio isotope of \_\_\_\_\_ helps to increase the productivity of crops.



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**18.** The wiring in a house consists of \_\_\_\_\_ circuit.



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**19.** Rapid back and forth motion of a particle about its mean position is called \_\_\_\_\_.



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20. The refractive index of a transparent medium is always greater than \_\_\_\_\_.



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21. Nuclear Fusion : Extreme temperature ::

Nuclear fission: \_\_\_\_\_



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22. Violet : lowest wavelength :: Red :

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23. 1kcal:Heat required:: 1joule:\_\_\_\_\_.



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24. The unit of moment of force.....



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25. Iron :  $5950m.s^{-1}$  :: Water : \_\_\_\_\_



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## Statement Type Questions Physics

1. Apparent weight of a person is always equal to his actual weight



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2. MCB is used to protect house hold electrical appliances.



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3. True or False. The velocity of sound is independent of temperature .



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4. Increase in the converging power of eye lens cause 'hypermetropia'.



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5. Einstein's theory of mass energy equivalence is used in nuclear fission and fusion. State whether true or false.



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6. Nichrome has the highest resistivity of  $3.5 \times 10^8$  gamma m.



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7. Heat energy flows from high temperature to low temperature



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**8.** True or False. The amount of energy passing per second through unit area is called intensity of sound



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**9.** What is the value of zero kelvin on Celsius scale?



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**10.** One unit of electrical energy consumed is equal to 1000 kilowatt hour.



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**11.** Turning a nut with a spanner having a short handle is so easy than one with a long handle .



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**12.** Plutonium -239 is a fissionable material. :

True or False



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**13.** According to charles's laws , at constant pressure the temperature is inversely proportional to volume .



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**14.** The geometrical centre of the lens is called optical centre.



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**15.** The convex lens always gives small virtual image.



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**16.** Fuse wire is an alloy of





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17. concave lens is used as 'magnifying lens'.



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18. True or False. A person 's apparent weight inside the lift increase when lift is accelerated upward.



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**19.** Waves created by Earth Quake are infrasonic.



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**20.** Nuclear fusion is more dangerous than nuclear fission. : True or False



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**Assertion And Reason Physics**

1. Assertion : The value of 'g' decreases as height and depth increases from the surface of the Earth .

Reason : 'g' depends on the mass of the object and the Earth .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If a both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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2. Assertion: The process of transferring heat energy from lower temperature to higher temperature is called cooling. Reason : The mass of the system is not altered when it is cooled.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**3. Assertion:** Electric appliances with a metallic body have three wire connections.

**Reason:** Three pin connections reduce heating of the connecting wires.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct

explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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4. Assertion : If the refractive index of the medium is high (denser medium) the velocity of the light. In that medium will be small.

Reason : Refractive index of the medium is

inversely proportional to the velocity of the light.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .



**Answer:**



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**5. Assertion:** In a  $\beta$ -decay, the neutron number decreases by one.

**Reason:** In  $\beta$ -decay atomic number increases by one.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**6. Assertion :** If Earth suddenly stops rotating ,  
the value 'g' becomes same at all places .

**Reason :** 'g' depends on the distance between  
two objects .

A. If both the assertion and the reason are  
true and the reason is the correct  
explanation of assertion.

B. If both the assertion and the reason are  
true , but the reason is not the correct  
explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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7. Assertion : Bending of the light rays from its original path at the interface of the two media is called 'Refraction. Reason : whenever the light travels from denser medium to rarer medium. It bends away from the normal .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**8. Assertion :** There is no effect on other end when one end of the rod is only heated.

**Reason:** Heat always flows from a region of lower temperature to higher temperature of the rod.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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9. Assertion: LED bulbs are far better than incandescent bulbs.

Reason: LED bulbs consume less power than incandescent bulbs.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.



C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**10.** Assertion: Control rods are known as 'neutron seeking rods'.

Reason: Control rods are used to perform substained nuclear fission reaction.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true , but the reason is not the correct explanation of the assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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## Answer In One Word Physics

1. What is lightning ?



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2. How are the wavelength and frequency of a sound related to its speed?



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3. What is the average energy released from a single fission process ?



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4. Explain the function of iris.



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5. Define electric energy its commercial units.



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## Mcq Chemistry

1. The Volume occupied by 4.4 g of  $CO_2$  at S.T.P

A. 22.4litre

B. 2.24 litre

C. 0.24litre

D. 0.1litre

**Answer:**



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2. A solution is a \_\_\_\_\_ mixture .

A. homogeneous

B. heterogeneous

C. homogeneous and heterogeneous

D. non homogeneous

**Answer:**



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3. A reaction between carbon and oxygen is represented by  $C_{(s)} + O_{2(g)} \rightarrow CO_{2(g)} + \text{Heat}$  . In which of the type (s) , the above reaction can be classified ?

(i) Combination Reaction

(ii) Combustion Reaction

(iii ) Decomposition Reaction

(iv ) Irreversible Reaction

A. i and ii

B. i and iv

C. I,ii and iii

D. I,ii and iii

**Answer:**



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4. In the alumino thermic process, the role of

Al is \_\_\_\_\_

A. oxidizing agent

B. reducing agent



C. hydrogenating agent

D. sulphurising agent

**Answer:**



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5. The IUPAC name of an organic compound is 3-Methyl butan-1-ol. What type compound it is ?

A. Aldehyde

B. Carboxylic acid

C. Ketone

D. Alchole

**Answer:**



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6. 1 Mole of any substance contains \_\_\_\_\_ molecules .

A.  $6.023 \times 10^{23}$

B.  $6.023 \times 10^{-23}$

C.  $3.0115 \times 10^{23}$

D.  $12.046 \times 10^{23}$

**Answer:**



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7. Electronegativity values of Na and Cl are 0.9 and 3.0 respectively, predict the nature of bonding .

A. Ionic

B. Covalent

C. Coordinate

D. Metallic

**Answer:**



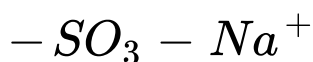
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**8. Which of the following statement is wrong about detergents ?**

A. It is a sodium salt of long chain fatty acids

B. It is sodium salts of sulphonic acids

C. The ionic part in a detergent is



D. It is effective even in hard water.

**Answer:**



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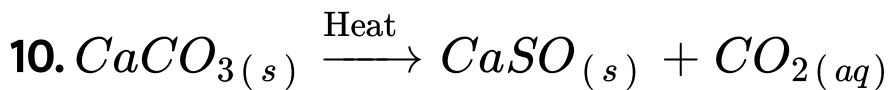
9. A beaker contains a solutions of copper sulphate . Recipitaion of copper sulphate takes place when small amount of it added to \_\_\_\_\_ solution .

- A. Saturated
- B. Super saturated
- C. Unsaturated
- D. Concentrated

**Answer:**



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The above thermal decomposition reaction is an \_\_\_\_\_ reaction .

- A. endothermic
- B. exothermic
- C. both (a) and (b)
- D. neither (a) nor (b)

**Answer:**





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11. Which of the following has largest number of particles ?

A. 8g of  $CH_2$

B. 4.4g of  $CO_2$

C. 34.2g of  $C_{12}H_{12}O_{11}$

D. 2g of  $H_2$

**Answer:**



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12. A 25 % alcohol solution means

A.  $25\text{ml}$  alcohol in  $100\text{ml}$  of water

B.  $25\text{ml}$  alcohol in  $25\text{ml}$  of water

C.  $25\text{ml}$  alcohol in  $75\text{ml}$  of water

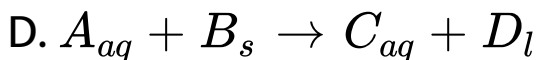
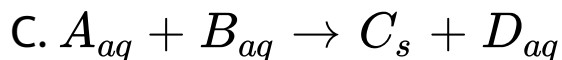
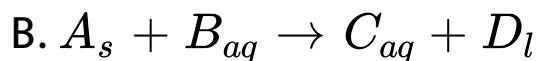
D.  $75\text{ml}$  alcohol in  $25\text{ml}$  of water

**Answer:**



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13. which of the following represent a precipitation reaction ?



**Answer:**



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14. Rectified spirit is an aqueous solution which contains about \_\_\_\_\_ of ethanol .

A. 95.5 %

B. 75.5 %

C. 55.5 %

D. 45.5 %

**Answer:**



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15. \_\_\_\_\_group contains the members of halogen family .

A. 17<sup>th</sup>

B. 18<sup>th</sup>

C. 15<sup>th</sup>

D. 16<sup>th</sup>

**Answer:**



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16. The mass of one C atom is :

A.  $6.023 \times 10^{23} \text{g}$

B.  $1.99 \times 10^{-23} \text{g}$

C.  $2.00 \text{g}$

D.  $12 \text{g}$

**Answer:**



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17. \_\_\_\_\_ is an important metal to form amalgam

A. Ag

B. Hg

C. Mg

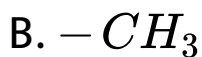
D. Al

**Answer:**



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18. Methylene group is \_\_\_\_\_



**Answer:**



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19. Powdered  $CaCO_3$  reacts more rapidly than flaky  $CaCO_3$  because of \_\_\_\_\_.

A. large surface area

B. high pressure

C. high concentration

D. high temperature

**Answer:**



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20. Identify the non - aqueous solution.

A. sodium chloride in water

B. glucose in water

C. copper sulphate in water

D. sulphur in carbon-di-sulphide

**Answer:**



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1. the component present in lesser amount , in a solution is called \_\_\_\_.



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2. Atoms of one element can be transmuted into atoms of other element by \_\_\_\_.



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3. When lithium metal is placed in hydrochloric acid , \_\_\_\_\_ gas is evolved .



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4. \_\_\_\_\_ forms the basis of modern periodic table .



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5. General molecular formula of alkynes is

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6. Polar compounds are soluble in \_\_\_ solvents



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7. Number of protons and number of electrons  
are always equal in \_\_\_\_\_.



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8. Ethanoic acid turns \_\_\_\_\_



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9. The scientist who propounded the modern periodic law is \_\_\_\_\_



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10. Benzene is an example of \_\_\_\_\_ compound .



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11. One mole of any gas occupies \_\_\_\_\_ ml at S.T.P



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12. A chemical reaction which involves addition of oxygen is called as \_\_\_\_\_.



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13. Electrolysis is type of \_\_\_\_\_ reaction .



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14. The chemical name of rust is \_\_\_\_\_.



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15. The gas formed during the decarboxylation of sodium salt of ethanoic acid is \_\_\_\_\_



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16. \_\_\_\_\_ are example for solubility of gas in liquid .



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17. \_\_\_\_\_ of element explains periodic recurrence of physical and chemical properties

.



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18. \_\_\_\_\_ gas exists in two allotropic forms.



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19. The pH of a fruit juice is 5.6 . If you add slaked lime to this juice , its pH \_\_\_\_\_  
(increase / decrease )



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20. Organic compound have a  
\_\_\_\_\_structure.



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21. First group : Alkali metals :: Second group :

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22. pH 6.8 human saliva :: pH 1: \_\_\_\_\_



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23. Propane : saturated compound :: Benzene :

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24. Mendeleev's periodic table : Atomic mass ::

Moseley modern table : \_\_\_\_\_



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25. Energy is released : Combination reaction ::

energy is absorbed : \_\_\_\_\_.



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## State Statement Chemistry

1. Two elements sometimes can form more than one compound .



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2. Ionic radius increases across the period from left to right .



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3. When silica gel is kept open , it absorbs moisture from the air , because it is hygroscopic in nature



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4. Silver metal can displace hydrogen gas from nitric acid.



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5. Consumption of ethanol affects our central nervous system .



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6. Molar mass of  $CO_2$  is  $42g$ .



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7. Electron affinity is not a periodic property .



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**8.** Sodium chloride dissolved in water forms a non - aqueous solution .



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**9.** Periodical removal of one of the products of a reversible reaction increases the yield .



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10. The gram atomic mass of an element has no unit



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11. Aluminium is very good oxidising agent



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12.  $A + BC \rightarrow AC + B$  is a double displacement reaction .



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**13.** Detergents are sodium salts of sulphonic acids .



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**14.** An electron has mass that is very much less than proton.



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**15.** Al wires are used as electric cables due to their silvery white colour.



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**16.** Solutions which contains three components are called binary solution.



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17. Both physical and chemical changes attain equilibrium.



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## Assertion And Reason Chemistry

1. Assertion : atomic mass of aluminium is 27

Reason : an atom of aluminium is 27 times

heavier than  $\frac{1}{12^{th}}$  of the mass of the C- 12

atom .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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2. Assertion : Magnesium is used to protect steel from rusting .

Reason : Magnesium is more reactive than iron .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct

explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**3. Assertion :** Sodium chloride f ( table salt ) is dissolved in water

**Reason :** Polat substances are solble in polar solvents.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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4. Assertion : Alkanes are saturated hydrocarbons.

Reason : Hydrocarbons consist of covalent bonds .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct

explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**5. Asseration:** Combustion reactions are also called as an exothermic oxidation reaction.

Reasons In these reactions ,oxygen is added and heat energy is released.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**6. Assertion :** the relative molecular mass of chlorine is 35.5 a.m.u

**Reason :** the natural abundance of chlorine isotopes are not equal .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct

explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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7. Asseration: Detergents are more effective cleansing agents than soaps in hard water.,

Reasons: Calcium and magnesium salts of detergents are water soluble.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is false ,but the reason is true.

D. Assertion is true ,but the reason is false .

**Answer:**



**Watch Video Solution**

8. Assertion : Colour of copper sulphate change when an iron nail kept in it`

Reasons : Copper is displaced by iron and iron sulphate is formed.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct

explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**9. Assertion :** sulphur dissolves in water .

**Reason :** Non polar substances are soluble in non polar solvents



A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**10. Assertion :** Al is very good reducing agent.

**Reason :** It is used in Alumino thermic process

.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**Answer One Word Chemistry**

1. Who proposed that volume of a gas at given temperature and pressure is proportional to number of particles?



**Watch Video Solution**

**2. What are the ions in aqueous solutions?**



**Watch Video Solution**

**3. What is the power of alcohol?**



**Watch Video Solution**

4. The process of reducing the roasted oxide ore to metal under molten condition.



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5. What is meant by binary solution ?



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1. Casparian strips are present in the \_\_\_\_\_  
of the root.

A. cortex

B. pith

C. pericycle

D. endodermis

**Answer:**



**Watch Video Solution**

2. The animals which give birth to young ones are

- A. Ovaiparous
- B. Viviparous
- C. Ovoviviparous
- D. All of above

**Answer:**



**Watch Video Solution**

3. Site for processing of vision, hearing memory, speech, intelligence and thought is \_\_\_\_\_

A. Kidney

B. ear

C. brain

D. lungs

**Answer:**



**Watch Video Solution**



4. Identify the exocrine gland

A. Thyroid gland

B. Pituitary gland

C. Adrenal gland

D. Salivary gland

**Answer:**



**Watch Video Solution**

5. Kreb's cycle takes place in

A. chloroplast

B. mitochondrial matrix

C. stomata

D. inner mitochondrial membrane

**Answer: A::D**



**Watch Video Solution**

## 6. Active transport involves

A. movement of molecules from lower to higher concentration

B. expenditure of energy

C. it is an uphill task

D. All of above

**Answer:**



**Watch Video Solution**

7. Estrogen is secreted by \_\_\_\_\_.

A. Anterior pituitary

B. Primary follicle

C. Graafian follicle

D. Corpus luteum

**Answer:**



**Watch Video Solution**

**8.** The neurons which carries impulse from the central nervous system to the muscle fibre.

- A. afferent neurons
- B. association neuron
- C. efferent neuron
- D. unipolar neuron

**Answer:**



**Watch Video Solution**

9. What is true of gametes ?

- A. They are diploid.
- B. They give rise to gonads.
- C. They produce hormones .
- D. They are formed from gonads.

**Answer:**



**Watch Video Solution**

10. Which one of the following hormones is naturally not found in plants:

A. 2, 4 – *d*

B. *GA3*

C. Gibberillin

D. IAA

**Answer:**



**Watch Video Solution**

11. The brain of leech lies above the

A. Mouth

B. Buccal Cavity

C. Pharynx

D. Crop

**Answer:**



**Watch Video Solution**



12. PNS is formed of \_\_\_\_ pairs of cranial nerves in Rabbit.

A. 10

B. 12

C. 14

D. 16

**Answer:**



**Watch Video Solution**

13. \_\_\_\_\_ acts as an insulator.

- A. myelin sheath
- B. synaptic junction
- C. nodes of Ranvier
- D. glial cells

**Answer:**



**Watch Video Solution**

14. Syngamy results in the formation of \_\_\_\_\_.

A. Zoospores

B. Conidia

C. Zygote

D. Chlamydospores

**Answer:**



**Watch Video Solution**

**15.** The wall of human heart is made of

A. Endocardium

B. Epicardium

C. Myocardium

D. All of above

**Answer:**



**Watch Video Solution**

**16.** Vomiting centre is located in \_\_\_\_\_

A. medulla oblongata

B. stomach

C. cerebrum

D. hypothalamus

**Answer:**



**Watch Video Solution**

**17.** Which endocrine gland is called "Master gland" ? Why?

A. Pineal gland

B. Pituitary gland

C. Thyroid gland

D. Adrenal gland

**Answer:**



**Watch Video Solution**

**18.** \_\_\_\_\_ helps in transpiration.

A. Stomata

B. Epidermis

C. Trichomes

D. Root hairs

**Answer:**



**Watch Video Solution**

**19.** In leech locomotion is performed by

A. Anterior sucker

B. Posterior sucker

C. Setae

D. None of the above

**Answer:**



**Watch Video Solution**

**20.** Which one of the following regarding blood composition is correct

A. Plasma-Blood+Lymphocyte

B. Serum-Blood+Fibrinogen

C. Lymph-Plasma+RBC+WBC

D. Blood-Plasma+RBC+WBC+Platelets



**Answer:**



**Watch Video Solution**

## Fill In The Blanks Biology

1. Xylem and phloem occurring on the same radius constitute a vascular bundle called \_\_\_\_\_ .



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2. \_\_\_\_ is the longest cell in our body .



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3. All the four channels of circulatory system are connected together in \_\_\_\_\_ segment of leech.



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4. \_\_\_\_\_ causes cell elongation, apical dominance and prevent abscission.



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5. The implantation of the embryo occurs at about \_\_\_ day of fertilization .



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6. \_\_\_\_\_ is ATP factory of the cells.



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7. The normal human heartbest rate is about \_\_\_\_\_ times per minute .



**Watch Video Solution**

8. \_\_\_\_\_ carries the impulse towards the cell body.



**Watch Video Solution**

9. \_\_\_\_\_ separate nitrogenous waste from the blood in rabbit.



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10. Gibberelins induce stem elongation in \_\_\_\_\_ plants.



[Watch Video Solution](#)

11. \_\_\_\_\_ involves evaporative loss of water from aerial parts .



[Watch Video Solution](#)

12. Implantation takes place in \_\_\_\_\_ of uterus .



[Watch Video Solution](#)

13. \_\_\_\_\_ and root hairs are the epidermal outgrowths.



[Watch Video Solution](#)

14. A neuron contains all cell organelles except\_\_\_\_\_



[Watch Video Solution](#)

15. Each segment is superficially subdivided into rings or\_\_\_\_\_ in leech.



[Watch Video Solution](#)

16. After fertilization , the ovary devlops into \_\_\_\_\_.



[Watch Video Solution](#)

17. Structures in roots that help to absorb water are \_\_\_\_\_.



[Watch Video Solution](#)



**18.** The existence of two sets of teeth in the life of an animal is called \_\_\_\_\_ dentition.



**Watch Video Solution**

**19.** The part of human brain which acts as relay centre is \_\_\_\_\_.



**Watch Video Solution**

**20.** Fill in the blanks:

(i) \_\_\_\_\_ causes stomatal closure.

(ii) The growth and functions of thyroid gland is controlled by\_\_\_\_\_.



**Watch Video Solution**

**21.** Glycolysis: Cyptoplasm::Kreb's cycle:\_\_\_\_\_.



**Watch Video Solution**

22. Outer: Duramater :: Inner: \_\_\_\_\_ .



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23. Granulocytes : eosinophils :: Agranulocytes

: \_\_\_\_\_ .



[Watch Video Solution](#)

24. One nerve process:Unipolar neurons Two

nerve process: \_\_\_\_\_



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25. Grapes : Cross Pollination :: Hibiscus :

\_\_\_\_\_.



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## State Statement Biology

1. Phloem tissue is involved in the transport of water in plant.



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2. The vas deference serves to transport the ovum.



[Watch Video Solution](#)

3. WBC defend the body from bacterial and viral infections .



[Watch Video Solution](#)

4. All the nerves in the body are covered and protected by meninges.



[Watch Video Solution](#)

5. Gibberellins cause parthenocarpy in tomato



[Watch Video Solution](#)

6. A pair of Cowper's gland and perineal gland are the accessory glands present in the male reproductive system of Rabbit.



**Watch Video Solution**

7. Seeds are the product of asexual reproduction .



**Watch Video Solution**

8. Dendrons are the longest fibres that conducts impulse away from the cell body.



**Watch Video Solution**

**9.** In the concentric type of bundle, the phloem is present on both outer and inner side of xylem.



**Watch Video Solution**

**10.** The cerebral hemispheres of rabbit are connected by band of nerve tissue called corpora quadrigemina.



**Watch Video Solution**



11. When guard cells lose water the stoma opens



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12. Menstrual cycle ceases during pregnancy.  
(True/False)



[Watch Video Solution](#)

13. Pons helps in regulating respiration.



[Watch Video Solution](#)

**14.** Estrogen is secreted by corpus luteum.



**Watch Video Solution**

**15.** Insect pollinated flowers are characterized by dry and smooth pollen.



**Watch Video Solution**

**16.** Cerebrum controls the voluntary actions of our body.



**Watch Video Solution**

**17.** Plants lose water by the process of transpiration.



**Watch Video Solution**

**18.** Mesophyll contains chlorophyll.



[Watch Video Solution](#)

**19.** Ovary of leech is a coiled ribbon shaped structure.



[Watch Video Solution](#)

**20.** Testosterone is essential for formation of placenta.



[Watch Video Solution](#)

## Assertion And Reasons Biology

1. Assertion : Young root contain s pith whereas i n old root pith is absent.

Reason : Pith is soft and spongy Young root contains pith but as the tree matures it spith transforms into other cells.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

2. Assertion :In adult rabbit , the excretory and genital system become inter connected.`

Reason : Sexual dimorphism is seen in rabbit.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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**3. Assertion (A) :** Asexual reproduction occurs by spore formation in fungal hypha. Reasons (R): The nucleus divides several times within the sporangium and each nucleus with small amount of cytoplasm develops into a spore.



A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

4. Assertion (A) : Diabetes mellitus increases the blood sugar levels. Reason (R) : Insulin decreases the blood sugar levels .

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



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5. Seeds are the product of asexual reproduction. Reasons : In respiration the energy released from glucose is used to make ATP.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**6. Assertion :** The sound of heart beats, heart valve functions can be detected by a stethoscope .

**Reason :** Stethoscopes are high precisioned Instruments.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

7. Assertion : Conjunctive tissue is made up of parenchyma in dicot roots.

Reason : Conjunctive tissue is made up of sclerenchyma in monocot roots.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**8. Assertion :**Tracheal walls are supported by rings of cartilage. It helps in the free passage of air .



A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**9. Assertion :** Osmosis is active movement of water. **Reasons :** It occurs through a semipermeable membrane.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**10. Asseration :** cerebrospinal fluid is present throughtout the central nervous system .

**Reasons :** cerebrospinal fluid has no such functions.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

## One Word Answer Biology

1. The matrix of chloroplast is called \_\_\_\_\_ .



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2. Which kind of cells are found in the lymph ?



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**3. Mention the function of endosperm.**



**Watch Video Solution**

**4. What does CNS stand for**



**Watch Video Solution**

**5. Four rounded bodies found in mid brain**



**Watch Video Solution**

1. Which software is used to create animation?

A. Paint

B. PDF

C. MS Word

D. scratch

**Answer:**



**Watch Video Solution**

2. The number of chromosomes found in human beings are\_\_\_\_\_

A. 22 pairs of autosomes and 1 pair of allosomes .

B. 22 autosomes and 1 allosome.

C. 46 autosomes .

D. 46 pairs autosomes and 1 pair of allosomes.

**Answer:**







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3. Himagiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of \_\_\_\_

A. chilli

B. maize

C. sugarcane

D. wheat

**Answer:**



Watch Video Solution

4. Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be

A. Nicotine

B. Tannic acid

C. Curcumin

D. Leptin

**Answer:**



Watch Video Solution

5. Which of the following is/are a fossil fuel ?

i.Tar ii. Coal iii. Petroleum

A. i only

B. i and ii

C. ii and iii

D. I,ii and iii

**Answer:**



6. Which is used to build scripts ?

- A. Script area
- B. Block palette
- C. Stage
- D. Sprite

**Answer:**



7. rDNA is a \_\_

A. vector DNA

B. circular DNA

C. recombinant of vector DNA and desired  
DNA

D. satellite DNA

**Answer:**



**Watch Video Solution**

8. A renewable source of energy is

A. petroluem

B. coal

C. nuclear fuel

D. trees

**Answer:**



**Watch Video Solution**

9. Forest conservation Act was passed in

-----

A. 1952

B. 1958

C. 1978

D. 1980

**Answer:**



**Watch Video Solution**

10. Where does alcohol effect immediately after drinking ?

A. Eyes

B. Auditory region

C. Liver

D. Central nervous system

**Answer:**



**Watch Video Solution**



11. According to Mendal ,alletes have the following character

- A. Pair of genes
- B. Responsible for character
- C. Production of gametes
- D. Recissive factors

**Answer:**



**Watch Video Solution**

12. Medical waste is disposed by\_\_\_\_\_

- A. Sanitary land fill
- B. Incineration
- C. Composting of plants
- D. Segregation

**Answer:**



**Watch Video Solution**

13. Green house effect refers to

A. cooling pf the earth

B. trapping of Uv rays

C. cultivation of the plants

D. warming of earth

**Answer:**



**Watch Video Solution**

**14. Where you will create category of blocks ?**

A. Block palette

B. Block menu

C. Script area

D. Sprite

**Answer:**



**Watch Video Solution**

**15.** In adult rabbit the excretory and genital system is not interconnected.



**Watch Video Solution**

16. The project for conservation of \_\_\_\_\_  
was launched in 1976

A. tiger

B. elephant

C. lion

D. crocodile

**Answer:**



**Watch Video Solution**

17. Excessive consumption of alcohol leads to



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18. The centromere is found at the centre of the \_\_\_\_\_ chromosome.



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19. Which button we use to select a required program ?

A. Program button Metacentric

B. Restart buttons

C. MY computer

D. Start Button

**Answer: A::B::C**



**Watch Video Solution**

20. DNA fingerprinting was developed by

\_\_\_\_\_.

A. Dr.Ian Wilmut

B. Alec Jeffrey

C. Lilly

D. Dr. Norman

**Answer:**



**Watch Video Solution**

**Fill In The Blanks Science**



1. The characters on the background of a scratch window is known as \_\_\_\_\_



**Watch Video Solution**

2. Physical expression of a gene is called \_\_\_\_\_



**Watch Video Solution**

3. Restriction endonucleases cut the DNA molecule at specific positions known as \_\_\_\_\_.



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4. PUFA stands for \_\_\_\_\_.



[Watch Video Solution](#)

5. Removal of soil particles from the land is called \_\_\_\_\_.



[Watch Video Solution](#)

6. The output we get from any application is commonly referred as \_\_\_\_\_.



**Watch Video Solution**

7. \_\_\_\_ acts as aging clock in every cell.



**Watch Video Solution**

8. Tidal energy is \_\_\_\_\_ type of energy.



**Watch Video Solution**

9. NACO stands for \_\_\_\_\_



**Watch Video Solution**

10. \_\_\_\_\_ is a good example for Visual Communication Device.



**Watch Video Solution**

11. The scientific process which produces crop plant enriched with desirable nutrients is called \_\_\_\_\_.



**Watch Video Solution**

12. \_\_\_\_\_ is the most commonly used fuel for the production of electricity.



**Watch Video Solution**

**13.** Cirrhosis is caused in liver due to excessive use of \_\_\_\_\_.



**Watch Video Solution**

**14.** Proper utilization and management of nature and its resources is termed as \_\_\_\_\_.



**Watch Video Solution**

15. \_\_\_\_\_ is used to choose the block to use.



**Watch Video Solution**

16. An inheritable change in the amount or the structure of a chromosome is called



**Watch Video Solution**

17. Solar cell is made of \_\_\_\_\_ .



**Watch Video Solution**

**18.** In gene cloning, the DNA of interest is integrated into a \_\_\_\_\_.



**Watch Video Solution**

**19.** Less response of a drug to a specific dose with repeated use is called \_\_\_\_\_.



**Watch Video Solution**



**20.** Economically important crop plants with superior quality are raised by \_\_\_\_\_



**Watch Video Solution**

**21.** Diabetes mellitus decreases the sugar level of blood.



**Watch Video Solution**

22. Chemotherapy : Chemicals : Radiation therapy : \_\_\_\_\_



[Watch Video Solution](#)

23. Chromium : Asthmatic bronchitis:: Cadmium : \_\_\_\_\_.



[Watch Video Solution](#)

24. Cauliflower :Black rot: Cowpea: \_\_\_\_\_



[Watch Video Solution](#)

25. HDL : Good cholesterol :: LDL : \_\_\_\_\_



[Watch Video Solution](#)

## State Statement Science

1. Multiple folders combine to form a file.



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2. A recessive factor is altered by the presence of a dominant factor.



**Watch Video Solution**

3. Auxins are efficient than gibberellins in inducing the formation of seedless fruits.



**Watch Video Solution**

4. Iron fortified rice variety determines the protein quality to the cultivated plant.



[Watch Video Solution](#)

5. Cancer causing genes are called Oncogenes.



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6. Scratch is difficult to use and do programming



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7. Some of the chromosomes have an elongated knob-like appendage known as telomere.



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8. Biogas is fossil fuel.



[Watch Video Solution](#)

9. 2,4-D is a natural plant hormone.



[Watch Video Solution](#)

10. Molecular scissors refers to DNA ligases.



[Watch Video Solution](#)

11. AIDS is not transmitted by contact with a patient's clothes.



[Watch Video Solution](#)

**12.** Overgrazing prevents soil erosion.



**Watch Video Solution**

**13.** In scratch, to run a program we need to click the red button.



**Watch Video Solution**



**14.** Triploid plants and animals produce many offsprings.



**Watch Video Solution**

**15.** Wild life protection act was established in 1972.



**Watch Video Solution**

**16.** Abiogenesis theory states that life originates from pre-existing life.



**Watch Video Solution**

**17.** Nicotine is a narcotic drug.



**Watch Video Solution**

**18.** The process of producing an organism with more than two sets of chromosome is called

mutation.



**Watch Video Solution**

**19.** Sprite is the background appearing when we open the scratch window.



**Watch Video Solution**

**20.** What is GA3?



**Watch Video Solution**

## Assertion And Reasons Science

1. Give an example of natural and artificial auxin.



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2. Assertion:Hybrid is superior than either of its parents.

Reason:hybrid vigour is lost inbreeding.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**3. Assertion :** Nilgiris is a bio-reserve .

**Reason :** The flora and fauna must be conserved.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**4.** Assertion : Aids virus has been found in urine of patients affected by AIDS

Reason : Person should be kept isolated from the family.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**



5. Assertion(A) : Ginkgo biloba is a living fossil. Reason(R): Ginkgo biloba has persisted and remain unchanged for the past several million years, while its relatives disappeared.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct

explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

6. Auxin was introduced by \_\_\_\_\_.



**Watch Video Solution**

7. Assertion : Ooranis are traditional methods of collecting Rain water

Reason : Ooranis are used for domestic purpose.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**8.** Auxins are the most abundantly found plant hormones.



**Watch Video Solution**

**9. Assertion :**Human female are homogametic

**Reason:**In female,the gametes or the eggs formed are similar in their sex chromosome type.

A. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

B. If both the assertion and the reason are true and the reason is the correct explanation of assertion.

C. Assertion is true ,but the reason is false .

D. Assertion is false ,but the reason is true .

**Answer:**



**Watch Video Solution**

**10.** Progesterone is secreted by graafian follicle.



**Watch Video Solution**

## Answer The One Word Science

1. What is 'NOTEPAD' application used for ?



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2. Who received the Nobel prize for his work on role of chromosomes in heredity?



[Watch Video Solution](#)

3. Name the non - violent agaitation aimed at protection of tress .



**Watch Video Solution**

4. Which organism is considered to be the fossol bird ?



**Watch Video Solution**

5. Factors which induce mutatiom.





**Watch Video Solution**