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Question No. 1

Choose the correct options:-

Answers:-

(i) (a) Hydrogen gas and iron chloride produ

(ii) (a) Na

(iii) (b) Yeast

(iv) (c) Vas deference

(v) (c) Dipter

(vi) (d) Retina

(vii) (c) Ciliary muscles

(viii) (a) Coal and Petroleum

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Question No. 2

Fill in the blanks:-

Answers:-

(i) Octaves

(ii) Two

(iii) Food

(iv) Oxygen

Involuntary action like blood pressure.

(v) Fertilization

(vi) Ampere

(vii) Food chain



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Question No. 3

Match the column:-

'A'

'B'

- | | | |
|---|---|--------------------------|
| (i) Formula of common salt | - | NaCl |
| (ii) Non metal iodine | - | Lustrous |
| (iii) Alloy | - | Bronze |
| (iv) Blinking of eyelids | - | Reflex action |
| (v) Reproduction in Hydra | - | Budding |
| (vi) Genetic material | - | DNA |
| (vii) The unit of magnetic field strength | - | Oersted |
| (viii) Magnetic material | - | Iron |

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Question No. 4

Answer in one word:-

Answer of Qno. (i)

The pH value of acidic solutions is less than 7.

Answer of Qno. (ii)

Homogenous mixture of two or more metal is called alloy.

Answer of Qno. (iii)

The gap between two nerve cells is called synapse.



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Answer of Qno. (iv)

The period of menstruation is about 3 to 5 days approx.

Answer of Qno. (v)

Gregor Johann Mendel is known as father of genetics.

Answer of Qno. (vi)

Lens formula :-

$$\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$$

where f is focal length v - is image distance u - is object distance

Answer of Qno. (viii)

A closed and continuous path of electric current is known as electric circuit. It has electric source, wires, switch etc

Answer of Qno. (viii)

Magnet have two poles. One north and one south pole.



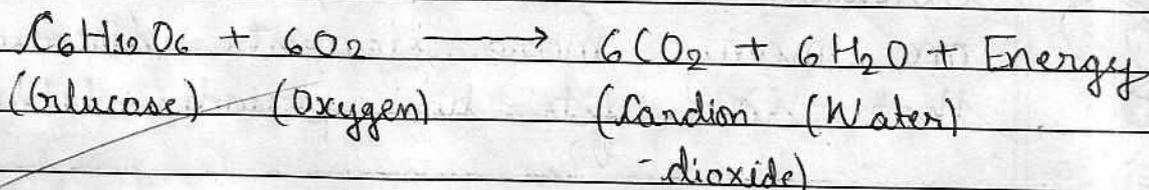
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Answer of Qno. 5 (or)

Respiration is an exothermic process:-

Respiration is a process of slow combustion in which energy is released in the form of ATP along with the formation of carbon dioxide and water. Therefore respiration is considered exothermic process.

Process of respiration is given as follows:-



Answer of Qno. 6 (or)

Difference between metal and non metal :-

	Metals	Non-metal
*	They are good conductor of heat and electricity.	* They are generally bad conductor of heat and electricity.
*	They are electro-positive in nature.	Except Graphite * They are electro-negative in nature.
*	They are sonorous.	* They are non-sonorous.
*	They form basic oxides.	* They form acidic or neutral oxides.



Answer of Qno. 5 & 7 (or)
Limitations of Newland's law of Octaves :-

* It was applicable upto calcium calcium only as after calcium every 8th element do not possess the property same as 1st element.

M * He said that there are only 56 elements in the world but later on many more elements discovered that does not fits his periodic table.

S * He put some unlike elements under
E same note.

Answer of Qno. 8

Haemoglobin is a pigment which is responsible for the transportation of oxygen in body.

Consequences of deficiency in haemoglobin:-
It reduce the oxygen carrying capacity of RBC's

* It causes a disease called anaemia.



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Answer of Qno 9

Reproduction is a process through which organisms produce morphologically and anatomically new organisms like them.

Reproduction is essential because:

- Organism produce for continuation of life
- lead to stability of population of an organism.

M

P

B

S

F

Answer of Qno 10

Mendel chosen pea plant for his experiment because:

* It has number of contrasting characters.

It can grow twice in a year.

It can do self pollination

and cross pollination

can be done.

*

It bears fruits and flowers early.



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Answer of Qno. 11

Laws of Reflections :-

* Angle of incidence is equal to angle of reflection.

* The incident ray, normal ray and reflected ray at the point of incidence all lie in a same plane.

M

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B

S

E

Answer of Qno. 12

Resistance of conductor depends upon :-

* Length of the conductor - Resistance is

directly proportional to length of the conductor.

$$R \propto l$$

* Area of cross section - Resistance is

inversely proportional to area of cross section of conductor

$$R \propto \frac{1}{A}$$

* Temperature - Resistance increase with temperature and resistance



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decrease with decrease in temperature.
apart from it resistance also depends
upon nature of material.

Answer of Qno. 13

Electric Component	Symbol
Ammeter	
Voltmeter	
Wire joint	

M
P
B
S
E

Answer of Qno. 14

Two ways in which non-biodegradable substance would affect the environment are:

- * They are not decomposed by decomposers and affect fertility of soil.
- * They cause biological magnification.
- * They are responsible for pollution.



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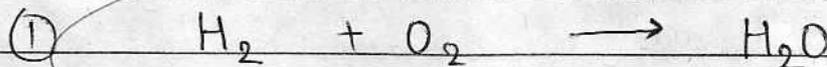
* If they remain dumped in the open animal like cow will eat it and this increases chances of animal's death.

Answer of Qno. 15

M
P
B
S
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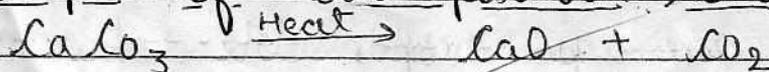
Combination Reaction:- Such a reaction in which two or more compound reacts to give single new substance is called combination reaction.

Example of combination reaction:-



Decomposition Reaction:- Such a reaction in which a compound breaks down to give simpler substance is called decomposition reaction:-

Example of decomposition reaction



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Answer of Qno. 16

Human eye is like a camera which has a screen and lens.

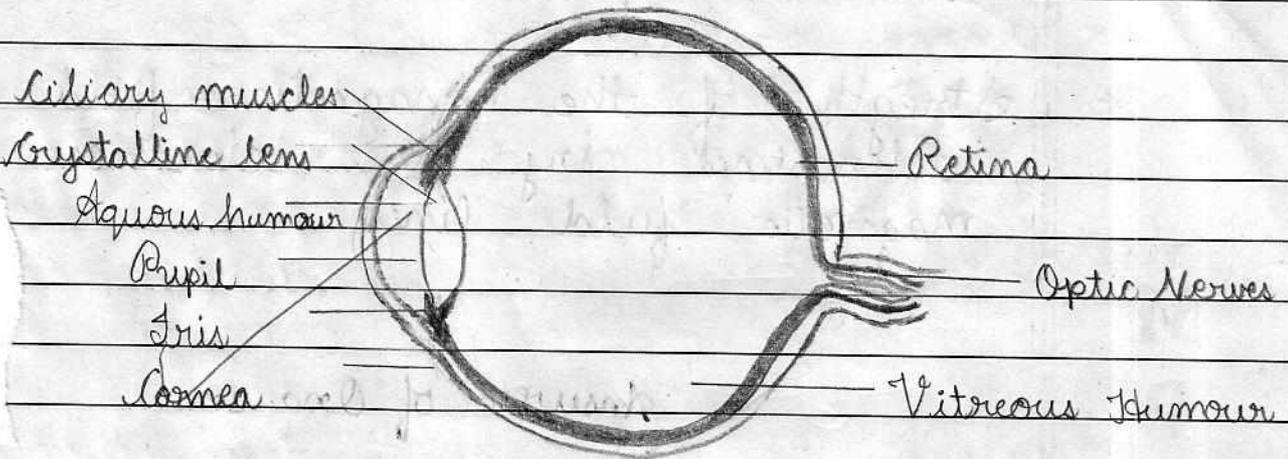
B
S
E

DIAGRAM :- HUMAN EYE

Answer of Qno. 17

* Properties of Magnetic field lines:-
Magnetic field lines are closed curves.

They arise from north pole and terminates at south pole outside the magnet.

* Inside the magnet they arise from south pole and terminates at north pole.



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* Two magnetic field lines never intersect each other because if they do so there will be two direction at a point which is not possible.

* Strength of the magnetic field is determined by the closeness of magnetic field lines.

M

P

Answer of Qno. 18

B

Advantages of solar cooker:

S

* It can cook four food at a time

E

* Fuel and electricity is not required that means it is economically good.

* Food cooked by solar cooker is healthy and tasty.

* They do not develop any chances of burning of food.

* Solar cooker donot cause any pollution.



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Answer of Qno. 19

Difference between acid and base:-

	Acid	Base
	* They are sour in taste.	* They are bitter in taste.
M	* They do not have soapy touch.	* They have soapy touch.
P	* They neutralize base.	* They neutralize acid.
B		
S	* In aqueous solution they give H^+ or H_3O^+ ions.	* In aqueous solution they give OH^- ions.
	* Their pH is less than 7.	* Their pH is more than 7.
	* They turn blue litmus to red.	* They turn red litmus to blue.
	* HCl is an example of strong acid.	* NaOH is an example of strong base.



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Answer of Qno. 20

Difference between soap and detergents:-

	Soaps	Detergents
M	* Soaps are sodium and potassium salts of long chain carboxylic acid.	* Detergents are sodium salt of sulphonic acid and ammonia with chloride and bromide ions.
P		
B	* They do not form good lather in hard water.	* They form good the lather in hard water.
S		
E	* Soaps are weak in cleansing action.	* Detergents are strong in cleansing action.
	* It forms scum in hard water.	* It does not form scum in hard water.
	* They are non-biodegradable.	* They are non biodegradable.
	* They are made from oil or fats of animal.	* They are made from petrochemicals.



Hi Answer of Qno. 21

Difference between xylem and phloem.

M
P
B
S
E

Xylem	Phloem
* Xylem is responsible for transport of water in plants.	* Phloem is responsible for flow of food in plants.
* Transport of water is done by xylem only in upward direction.	* Transport of food is done by phloem in upward & downward direction.
Xylem cells transport the water and mineral taken from the roots from soil.	* Phloem transport the food made by leaves during photosynthesis.
Transportation of water takes place with the physical force like transpiration.	* Transport of food requires the expenditure of energy in the form of ATP.



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Answer of Qno. 22

(a) Two uses of a concave mirror:-

(1) They are used as a shaving mirror.

(2) They are used in solar furnance.

(3) They are used in the headlights of vehicles.

(4) They are used in torches and searchlights.

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(b) Focal length of convex mirror = ?

Given that Radius of curvature of convex mirror = 32 cm

Radius of curvature = $2 \times$ Focal length

$$32 = 2 \times \text{Focal length}$$

$$\frac{32}{2} = \text{Focal length}$$

$$16 \text{ cm} = \text{Focal length}$$

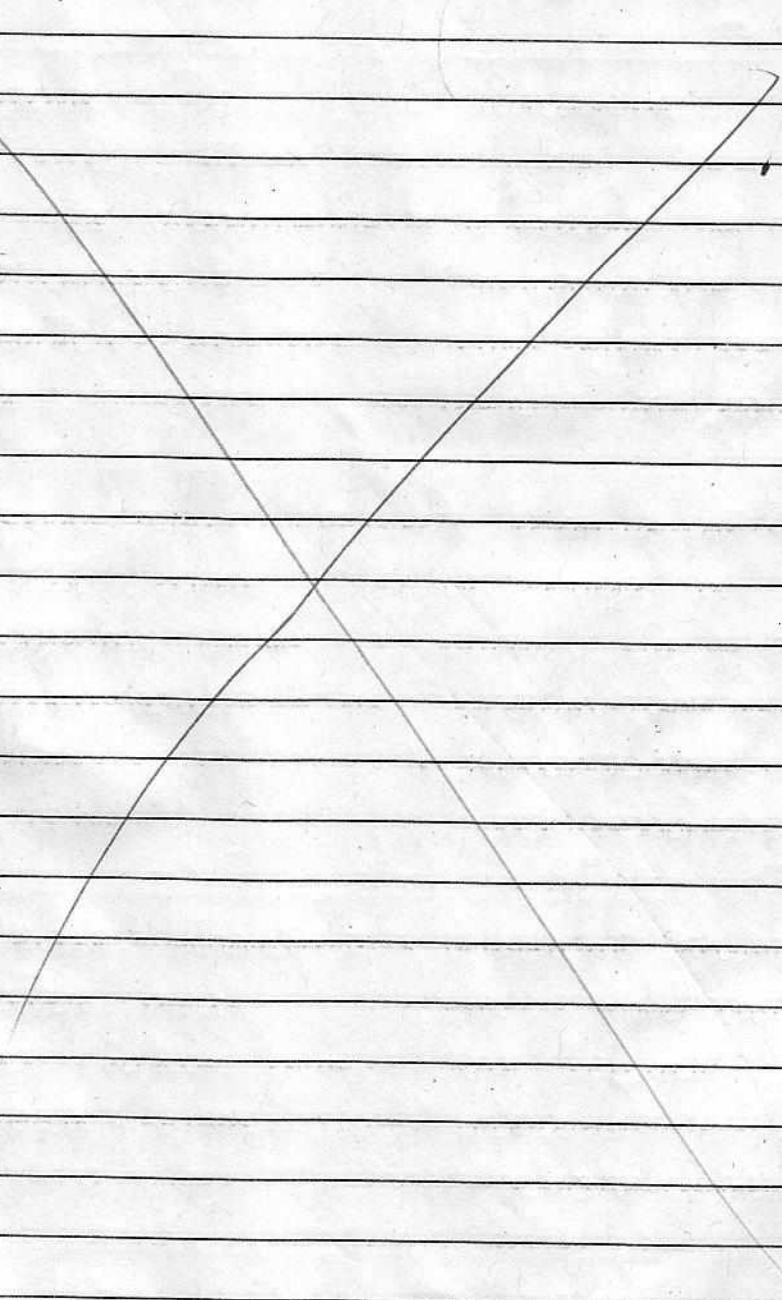


$$\boxed{} + \boxed{} = \boxed{}$$

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Hence focal length of concave mirror is 16 cm.



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