

W05
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Science

केवल मूल्यांकनकर्ता के उपयोग हेतु!
माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल 32 पृष्ठीय



32 PAGES ANSWER BOOK

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Science

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200323

उत्तर देने का माध्यम
Medium of answering the paper:
English

प्रश्न पत्र का सेट
Set of the Question paper: **D**

गोले भरने हेतु सहायण -
सही तरीका -
● ○ ○ ○ ○
गलत तरीका -
⊗ ⊗ ○ ⊙ ⊙ ○

नोट :-
इस शीट को भरने के पूर्व इस
पृष्ठ के पीछे दिए गए सहायण
को देखें।

केवल परीक्षक द्वारा भरा जावे।
प्रश्न क्रमांक के सम्मुख प्राप्तांकों की प्रविष्टि करें।

प्रश्न क्रमांक	पृष्ठ क्रमांक
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परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे ↓

प्रमाणित किया जाता है कि अन्दर के पृष्ठों के अनुरूप मुख्य पृष्ठ पर अंकों की प्रविष्टि एवं अंकों का योग सही है।
निर्धारित मुद्रा : नाम, पदनाम, मोबाईल नम्बर, परीक्षक क्रमांक एवं पदांकित संस्था के नाम की मुद्रा लगाएं।
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योग पूर्व पृष्ठ

2 - -



प्रश्न क्र.

Question - 1

(i)

Motor ✓

(ii)

Omnivorous ✓

(iii)

Exothermic reaction ✓

B

(iv)

brittleness ✓

S

(v)

Oxidation ✓

E

(vi)

Binary fission ✓

(vii)

infinity ✓

(viii)

ohm ✓

Question - 2

(i)

Testis ✓

(ii)

Cross Pollination ✓



(iii) XY chromosomes

(iv) light

(v) violet

(vi) Acetic acid

Urey

Question - 3

(i) Master gland → Pituitary

(ii) Female hormone → estrogen

(iii) Mendel → laws of genetics

(iv) Straight line path → Ohm's

(v) Potential difference → Volt

(vi) Strong acid → HCl

(vii) Metal → good conductor

(viii) Xylem → Water transport

प्रश्न क्र.

Question-4

- (i) 746 watts are there in one horsepower.
- (ii) The most important device for protection against damage due to short circuit or overloading is fuse wire or electric fuse.
- (iii) The reactions in which there is an exchange of ions between the reactants are called double displacement reaction.
- (iv) Fore brain is specialized for thinking, hearing, smelling, seeing etc.

(v) The embryo gets nutrition from placenta.

(vi) Power of lens = $\frac{1}{f}$ [in meter]

$$P = \frac{1}{1}$$

$$P = 1 \text{ D}$$

The power of lens will be 1 D

(vii) The danger signal or signal light is red in colour because the deviation of a ray of red colour is minimum. Hence, we can see red



colour from

Question - 5

There are 23 pairs of chromosomes present in human.

Female chromosomes

Male chromosomes

1) In Female, only 23 + X chromosomes are present in ovum in each cell.

2) In male, 23 + X & 23 + (Y) chromosomes are present in sperm in each cell.

2) When a sperm having 23 + X chromosomes is fused with ovum which have 23 + (X) chromosomes then it will give birth to female child.

2) When a sperm having 23 + Y chromosomes is fused with ovum which has 23 + X chromosomes then it will give birth to male child.

6

योग पूर्व पृष्ठ

पृष्ठ 6 के अंक

कुल अंक



प्रश्न क्र.

Answer of - Q6

(04)

⇒ Applications of concave mirror :-

1) Concave mirror are used in search lights & headlights of vehicles to get a powerful parallel beam of light.

Concave mirror is also used as a shaving mirror to get a large image of the face.

2) Dentists use concave mirror to get a larger image of a patient's teeth.

Answer of Q-7

(01)

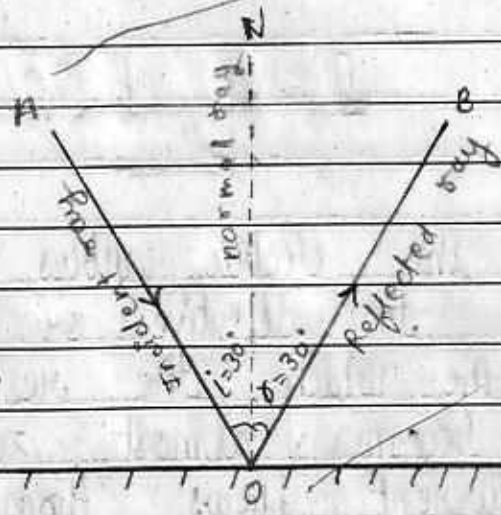
The angle of incidence is always equal to the angle of reflection.

$$i = r$$

When an incident ray makes an angle of incidence of 30° on a plane mirror then the value of angle of reflection is also 30° .



श्न क्र.



$$Li = Lr$$

$$30^\circ = 30^\circ$$

B
S
E

Answer of Q8

⊕ Electric current \rightarrow

The rate of flow of charge through a conductor is known as electric current.

It is represented by the letter I .

The S.I. unit of electric current is Ampere (A).

$$I = \frac{Q}{t}$$



Answer of Q9

'OR'

Sometimes, the electric wires comes in direct contact due to defective or damaged wiring, due to which the resistance of whole conductor becomes almost zero & a large amount current flows through the circuit. This leads to short circuiting in an electric circuit.

B

The causes of short circuiting :-

Due to defective switches & plugs.

Due to combination between both the wires.

It can be prevented by using electric fuse.

Answer of Q10

'OR'

Electric generator is the device that converts mechanical energy into electrical energy.

Electric generator is based on the principle of electromagnetic induction. In the generator, electricity is generated by rotating the coil in a magnetic field.



Answer of Q11

04

Omnivorous animals :-

The animals who eat both plants [fruits & vegetables] & ~~eat~~ meat [fish, chicken etc] are known as omnivores animals.

Example :- Human beings.

Answer of Q12

Corrosion :-

Iron articles are shiny when new but loses its shine when left for some time. This is commonly known as rusting of iron.

When a metal surface is attacked by some substance present around it such as moisture, air, acid etc. then they are said to be corrode & this process is commonly known as corrosion.

Example :-

black coating on silver
green coating on copper.

USE



प्रश्न क्र.

Answer of Q13

⇒ Malleability :->

Some metals are converted into thin sheets by beating. Then, this ability of a metal is known as malleability.

Ductility :->

The ability of a metal to be drawn into thin wires is known as ductility.

Answer of Q14

Saturated carbon compounds :->

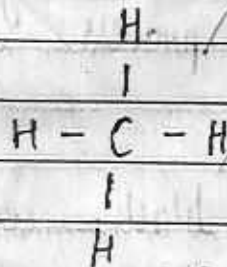
Compounds of carbon formed by only single bonds between their carbon atoms are known as saturated carbon compounds.

Example :-

(1)

Methane

\rightarrow CH_4



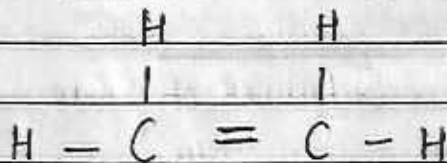


⇒ Unsaturated carbon compounds :->

Compounds of carbon

which are formed by double & triple bonds between their carbon atoms are known as unsaturated carbon compounds :->

Example :- (i) Ethene → C₂H₄



(ii) Ethyne → C₂H₂





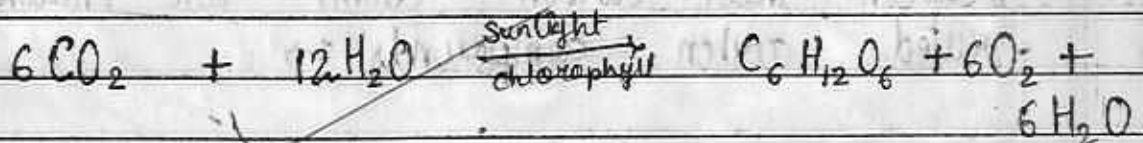
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Answer of Q15

Photosynthesis :-

The process by which green plants prepare their own food by using carbon dioxide & water to form glucose & oxygen in the presence of sunlight & chlorophyll.

Chemical equation :-



Answer of Q16

Vegetative propagation :->

When a new plant is produced artificially by the mother plant by various methods of multiplying them with root, stem, leaf then this process is known as vegetative propagation.

Example :- layering, grafting.



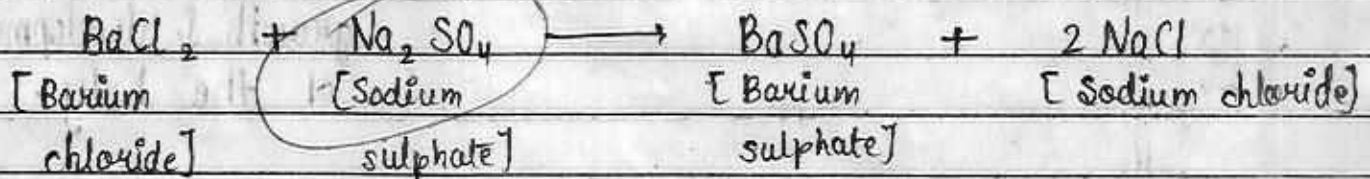
Answer of 17

Precipitation reaction \Rightarrow

The reaction in which an insoluble solid called precipitate is formed is known as precipitation reaction.

Example \Rightarrow

(1) Barium chloride reacts with sodium sulphate to form a white precipitate of barium sulphate.



(2) Barium chloride reacts with Potassium sulphate to form a white precipitate of barium sulphate.





प्रश्न क्र.

Answer of Q18

'04'

The name of three endocrine glands found in human :-

- 1) Pituitary gland
- 2) Thyroid gland
- 3) Adrenal gland

B S E	No.	Endocrine gland	Hormone	Function
	1.	Pituitary gland	Growth hormone TSH hormone	It controls the growth & development of the body. It controls the work of thyroid gland & regulates the production of thyroxin.
2.	Thyroid gland	Thyroxin Thyrocalcitonin	It helps in regulating heat & energy of body. It only regulates the level of calcium in blood.	



3. Adrenal gland	Adrenaline hormone	This hormone helps the body to deal with any kind of stress, emergency or danger.
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Answer of Q19

Dispersion of light :-

When a ray of ^{white} light is made to pass through a prism then a band of seven colours is obtained. This band is known as spectrum. This phenomenon is known as dispersion of light.

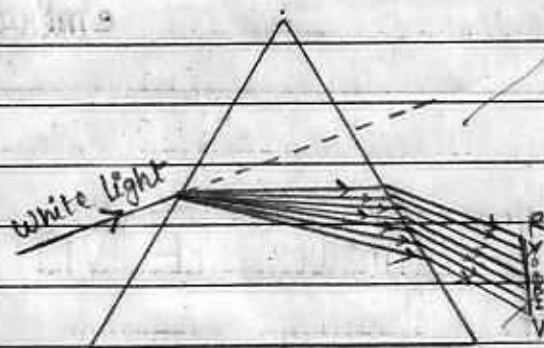
The order of these seven colours :-

- 1) V → Violet
- 2) I → Indigo
- 3) B → Blue
- 4) G → Green
- 5) Y → Yellow
- 6) O → Orange
- 7) R → Red



प्रश्न क्र.

Dispersion of light through prism :-



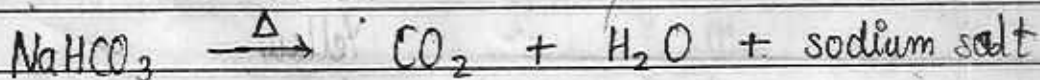
B
S
E

Answer of Q 20

(104)

(i) Uses of Baking soda :-

1) Baking soda is used for making baking powder which is a mixture of baking soda & a mild edible acid called tartaric acid. When baking powder is heated or mixed with water then the following reaction takes place :-



The carbon dioxide produced during the reaction can cause bread or cake to rise making them soft & spangy.



प्रश्न क्र.

2) Sodium hydrogen carbonate is used as an ingredient in ~~anti~~ antacids. Being alkaline it neutralizes the excess acid present in the stomach.

3) It is also used in soda-acid fire extinguisher.

(ii) Uses of Bleaching powder :-

B
S
E
1) It is used for bleaching cotton & linen in textile industries & wood pulp in paper factories.

2) It is also used for bleaching washed clothes in laundry.

3) It is used as an oxidising agent in many of the chemical industries.

(iii) Plaster of Paris :-

1) It is used for supporting fractured bones in right position.

2) It is used for making toys.

3) It is used for making frame of denture.



प्रश्न क्र.

(iv) Uses of Washing soda :-

1) Sodium carbonate is or washing soda is used in glass, soap & paper factories.

It is used for making sodium compounds such as ~~base~~ borax.

It is also used as a cleaning agent for domestic purposes.

B
S
E 4) It is also used for removing the permanent hardness of water.

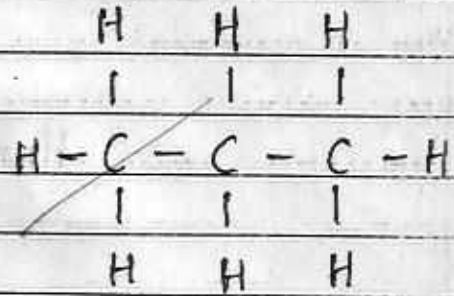
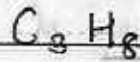
Answer of Q21

No	Name	Formula	Structural formula
1.	Methane	CH_4	<pre> H H - C - H H </pre>
2.	Ethane	C_2H_6	<pre> H H H - C - C - H H H </pre>

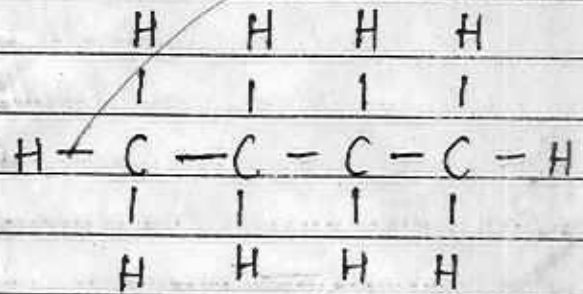
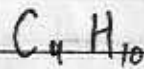


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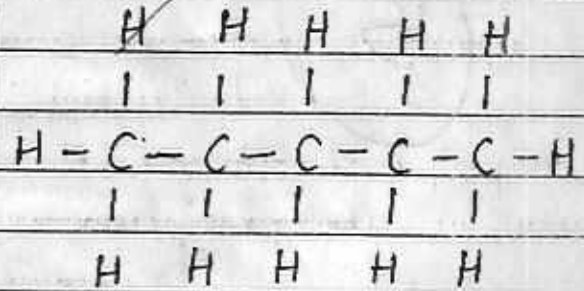
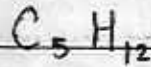
3. Propane



4. Butane



5. Pentane



B
S
E



प्रश्न क्र.

Answer of Q22.

Human digestive system

B
S
E

