

परीक्षा के नाम की सील

ई इंग्लिश परीक्षा



1. विषय कोड 200

परीक्षा का विषय Science

2. परीक्षा का माध्यम English परीक्षा की दिनांक 14/03/09 कोड सेट

3. परीक्षार्थी प्रश्न पत्र का पूर्ण कोड नम्बर (सेट A, B, C, या D) अनिवार्यतः भरें T-1034 B

स्टीकर तीर के निशान से मिलाकर लगायें

केन्द्र क्रमांक की सील  
केन्द्र क्रमांक - 213023

पर्यवेक्षक/केन्द्राध्यक्ष का प्रमाणीकरण

प्रमाणित किया जाता है कि परीक्षार्थी द्वारा निम्नानुसार पूरक

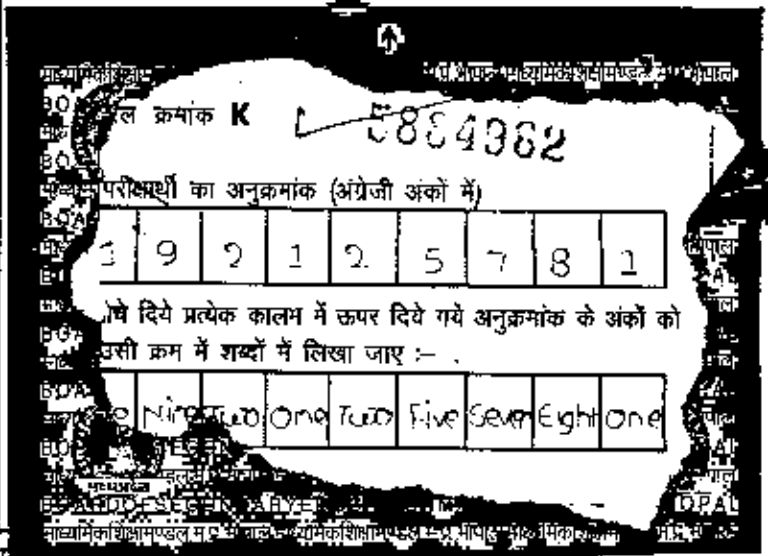
उत्तरपुस्तिका ली गई है :-

क :- संख्या शब्दों में one अंकों में 1

ख :- परीक्षार्थी की बैठक व्यवस्था कक्ष

क्रमांक 10 में है।

ग :- उत्तर पुस्तिका पर प्रश्न-पत्र का कोड नम्बर एवं सेट सही लिखा है।



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हस्ताक्षर (पर्यवेक्षक) Sanil Kumar S.A

नाम पद

पता/संस्था M.S. Badnagar

परीक्षार्थी द्वारा ली गई सभी पूरक उत्तर पुस्तिकायें मुख्य उत्तर पुस्तिका के साथ संलग्न हैं।

हस्ताक्षर केन्द्राध्यक्ष

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परीक्षार्थी, परीक्षक से अपेक्षा है कि वे पृष्ठ भाग पर दिये गये निर्देशों का यथेष्ट पालन सुनिश्चित करेंगे।

प्रमाणित किया जाता है कि उपरोक्तानुसार संलग्न पूरक उत्तर पुस्तिकाओं की संख्या मूल्यांकन के समय तक सही रूप में बचाव स्थिति में यथावत् रखते हुए ही उत्तरपुस्तिका का मूल्यांकन किया गया है। मैंने सभी प्रश्नों के उत्तरों का गहन मूल्यांकन किया है। उत्तर पुस्तिका के अन्दर के अंक एवं कवर पृष्ठ पर दर्शाये अंक एक समान हैं एवं योग पूर्णतः सही है।

हस्ताक्षर (परीक्षक) परीक्षक क्रमांक 216-152

हस्ताक्षर (उपमुख्य परीक्षक) दिनांक

हस्ताक्षर (मुख्य परीक्षक) दिनांक

## परीक्षार्थी के लिए निर्देश

1. परीक्षार्थी को अपना अनुक्रमांक/विषय/माध्यम/दिनांक एवं प्रश्न-पत्र का कोड (समूह) मुख पृष्ठ पर अंकित करना अनिवार्य है। अन्यत्र कहीं भी नहीं लिखा जाएगा।
2. अनुक्रमांक नीचे दिये गए उदाहरण अनुसार लिखा जाए :-
 

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एक	आठ	दो	चार	तीन	नौ	पाँच	छः	आठ
3. उत्तर पुस्तिका के दोनों ओर पृष्ठों में लिखें। बीच में रिक्त स्थान न छोड़ें। भूल से छूटा/रिक्त स्थान तथा शेष खाली पृष्ठों को क्रास किया जाए।
4. परीक्षार्थी प्रश्न पत्र हल करते समय ही, कठोर पृष्ठ पर दी गई तालिका में प्रश्न क्रमांक के सम्मुख वाले कालम में उत्तरपुस्तिका का वह पृष्ठ क्रमांक अनिवार्य रूप से अंकित करें जिस पर प्रश्न का उत्तर लिखा गया है। यदि पूरक उत्तरपुस्तिका का उपयोग किया गया हो, तो उस पर 25 से प्रारंभ करते हुए पृष्ठ क्रमांक परीक्षार्थी द्वारा स्वयं डाले जाएँ।

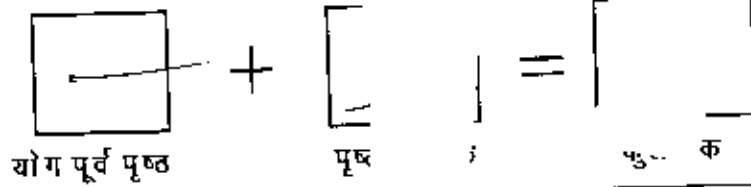
## परीक्षक के लिए निर्देश

1. केवल उन्हीं उत्तरपुस्तिकाओं का मूल्यांकन करें जिन पर होलो क्राफ्ट स्टीकर चस्पा है।
2. उत्तरपुस्तिका का मूल्यांकन होलो क्राफ्ट स्टीकर को चस्पा स्थिति में यथावत् रखते हुए ही किया जाये।
3. बिना होलो क्राफ्ट स्टीकर वाली तथा फटे हुए होलो क्राफ्ट स्टीकर वाली सभी उत्तरपुस्तिकाएँ मूल्यांकन हेतु परीक्षा नियंत्रक, माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल को व्यक्तिशः रूप से भेजी जाये।

## मूल्यांकन केन्द्र के लिए निर्देश

1. **O.M.R. SHEET** पर प्राप्तांक की प्रविष्टि करने हेतु केवल वही उत्तरपुस्तिकाएँ प्राप्त करें, जिनका मूल्यांकन होलो क्राफ्ट स्टीकर को चस्पा स्थिति में यथावत् रखते हुए ही किया गया है। यदि होलो क्राफ्ट स्टीकर फटा हुआ पाया जाता है तो ऐसी उत्तरपुस्तिकाएँ मूल्यांकन केन्द्र अधिकारी को पृथक से सौपी जाएँ। ऐसे प्रकरणों के प्राप्तांकों की प्रविष्टि **O.M.R. SHEET** में नहीं की जाए। मूल्यांकन केन्द्र अधिकारी ऐसी उत्तरपुस्तिकाएँ पुनः मूल्यांकन के लिये परीक्षा नियंत्रक, माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल को व्यक्तिशः रूप से सौपेंगे।
2. उत्तरपुस्तिका के मुख्य पृष्ठ में अंकों एवं शब्दों में अंकित प्राप्तांकों को मिलान कर **O.M.R. SHEET** में अंकों की सटीक प्रविष्टि करें।
3. **O.M.R. SHEET** पर प्रमाणीकरण कर हस्ताक्षर करें।

3



(SECTION-A)

Fill in the blanks-

(i) Mercury  $\rightarrow$

(ii) Come  $\rightarrow$

(iii) Saturn  $\rightarrow$

(iv) Galaxy  $\rightarrow$

(v) Desyabrattva  $\rightarrow$

match the following

Antony	-	Pure blood
(Universal donor)	-	'O' blood group
Nephridia	-	Earthworm
Red blood corpuscles	-	Haemoglobin
Hematite	-	Iron

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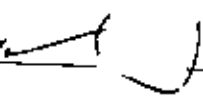
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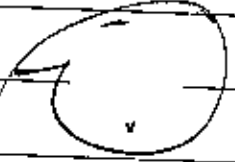
Choose the correct -

(i) concave lens 

(ii) ohm 

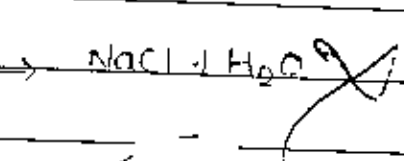
(iii) Legume root 

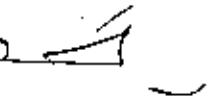
(iv) in the mitochondria 


(v) Aluminium 

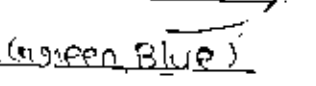
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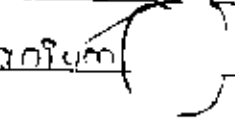
One word -

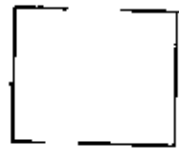
(i)  $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$  

(ii)  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$  

(iii) Glass 

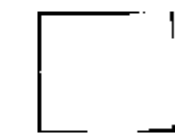
(iv) Three (Red, Green, Blue) 

(v) ~~Dioxide~~ Titanium 



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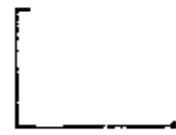
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SECTION-B

(3)

Chemical Equilibrium - "The state of reversible chemical reaction in which the rate of forward and backward reactions becomes equal" is said to be the chemical equilibrium.

Chemical Equilibrium is dynamic in nature.

Dynamic means 'continuously reactive'. A dynamic equilibrium is that state in which the rate of forward and backward reactions goes on continuously. In this reaction does not stop but rate of forward and backward reactions become equal.

For example:- If we fit a water pump in a tank in such a way that it sucks the water from the tank and pours back it. In this happening the pump is doing the two different reactions, one is sucking out the water from tank (hauze) and pouring back it. It seems that no reaction is going on, but two different reactions are going on at the same rate continuously.

Characteristics of Equilibrium -

(1) Equilibrium can only be attained only when the reactions are carried out in a closed vessel.

At Equilibrium reactions does not stop but the rate of forward and backward reactions become equal.

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(3) At equilibrium, the concentration of products and reactants becomes equal.

(4) Catalysts do not alter the equilibrium but help to attain the equilibrium at the earliest.

Important Note  $\rightarrow$  Equilibrium can be shifted on the either side by change in concentration, pressure and temperature.

Answer-4

Aerobic Respiration  $\rightarrow$  Aerobic Respiration takes place in the presence of oxygen ( $O_2$ ). Most of the organisms carry out this type of respiration. In this, 38 ATP/energy is released.

Anaerobic Respiration - The reaction respiration which takes place in the absence of  $O_2$  (oxygen). Unicellular organisms and lower animals carry out this mode of respiration. In this, 2 ATP energy is released.

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## The differences between Aerobic and Anaerobic Respiration-

### Aerobic Respiration

### Anaerobic Respiration

(1) This takes place in the presence of oxygen

(1) This takes place in the absence of oxygen

(2) More energy is released in this process i.e. 38 ATP

(2) Less energy is released in this process i.e. 2 ATP

(3) This takes place in the mitochondria of cell

(3) This takes place in cytoplasm of cell

(4) Most organisms carry out this process

(4) Few unicellular and lower animals take part in this process

(5) Hydrogen and carbon di-oxide are formed.

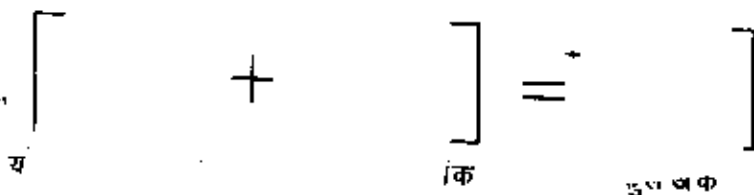
(5) Ethanol and carbon dioxide are formed.



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Ans-5

The hormones are chemical substance which flow in the body and are secreted by the endocrine glands for the proper maintenance of body. The hormones are both found in the plants and animals.

The hormones which are found in plants are as follows-

- (1) Auxin
- (2) Abscissic
- (3) Cytokinin
- (4) Gibberellins

Auxin → Auxin are the hormones which are found in plants. They are very important hormone in plants. The function are -

- (1) They control the growth of plants.
- (2) They help in the proper ripening of fruits.

Abscissic :- (1) They maintain the distribution of materials  
(2) They control reproduction process

Cytokinin :- (1) They help in cell elongation  
(2) They help in mitotic division of cell.

(4) Gibberellins :- (1) They control the growth rate of plant.  
(2) They control the cell division (meiosis) process.

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Answer-6

Alcohols -

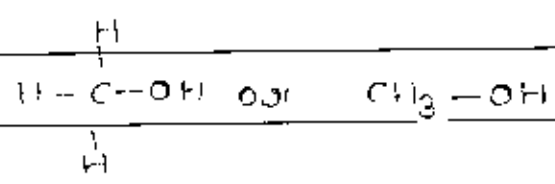
The hydroxy derivative (-OH) of the hydrocarbon is called alcohol. In this particular group (alcohol) -OH is attached to the alkyl group.

In alcohols hydroxy derivative -OH is attached to alkyl group by replacing by hydrogen atom. So at last we can say that "The hydroxy derivative of hydrocarbon attached to alkyl group" are called alcohols.

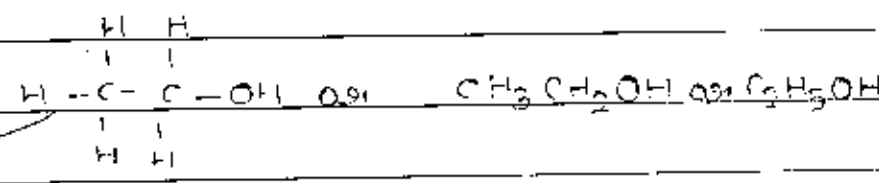
Their general formula is  $C_nH_{2n+2}OH$

The IUPAC names of Alcohols -

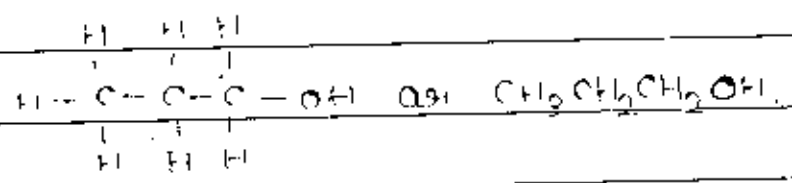
(1) Methyl alcohol -- Methanol



(2) Ethyl alcohol -- Ethanol



(3) Propyl alcohol -- Propanol



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Answer - 7

Soap

Detergent

(2) The Soaps are sodium salt of long chain carboxylic (fatty acids). The ionic group is  $-COO^- Na^+$ .

(2) Detergents are sodium salts of long chain benzene sulphonic acid or hydrogen-sulphates. The ionic group is  $-COO^- SO_3^+$ ,  $-COO^- SO_4^+$

(3) Soaps can not be used with hard water.

(3) Detergent can be used with hard water.

(3) Soaps are biodegradable.

(3) Some of the detergents are not biodegradable.

(4) Soaps have relatively weak cleansing action.

(4) Detergents have strong cleansing action.

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(5) Soaps are prepared from natural oils

(5) Detergents are prepared from man-made hydro-carbon

(6) Soaps are prepared by the reaction of oil or fat with caustic soda

(6) Detergents are prepared from petroleum hydro-carbon

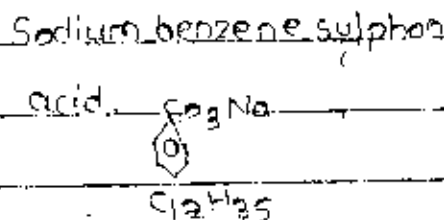
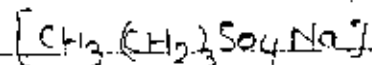
(7) Example of soap

$C_{17}H_{35}COONa$  Sodium stearate

$C_{17}H_{35}COOK$  Potassium stearate

(7) Example of detergent

Sodium alkyl (lauryl) sulphate



Important Note - Detergents are considered better than soaps  
For ex.





Answer-8

Pollution-

'Any unwanted change in the physical, biological and chemical elements of nature is defined as pollution'. In other words 'Pollution is the coming of some unwanted and unnecessary elements into the nature which disturbs the ecological balance.

Pollution can be divided into four main types on the basis of destination:- they are:-

(1) Air pollution

(2) Water pollution

(3) Soil pollution

(4) Noise pollution

(1) Air pollution → The unwanted change in the physical, chemical, biological structure of air is called air pollution. It is the mixing of some poisonous gases in the atmosphere.

The best way to define pollution is:-

The air is made up of several gases like  $CO_2$ ,  $SO_2$ ,  $H_2S$ ,  $NO_2$  etc. Air is a mixture of these in proper proportions. If it decreases or increases, it is called air pollution.

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(2) Water pollution - The change in the water which causes water to be unsuitable for use is called as water pollution. In other words, water pollution is the contamination of water which makes it unsuitable.

The factories, industries, emit out their wastes directly into the rivers, ponds etc. This causes water pollution.

(3) Soil pollution - The change in the soil structure which makes it unsuitable. The decrease in the fertility of soil can be defined as soil pollution.

(4) Noise pollution - The unwanted increase in the sound of a place is called noise pollution. It can be defined as Noise is that type of pollution which increases the sound (noise) and causes the human being and animals, irritate.

These all are kinds of pollution. These types of pollution has become a burning problem for whole world. We need steps to solve this problem as it can be minimised only by the conservation of environment.

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Answer-9

Forest conservation → "The conservation of forests.

What is called forest conservation, means to conserve our valuable forests is the conservation of forest"

Man has cut the trees from several years and now that has resulted into ecological imbalance.

So we need our forests to be saved. The main advantages of forest are:

- (1) Forest provide us wood, bamboo, lac, resins, gum and many other valuable product.
- (2) Forest control the climate by maintaining the O<sub>2</sub>-CO<sub>2</sub> balance. They play a important role in sustaining life.
- (3) Forest control soil erosion. They increases the soil fertility by shedding their leaves.
- (4) Forest play a important role in providing employment to lots of people.
- (5) They provide us several things. they act as rain bearers and maintains the ecological balance.

In this way forests are very beneficial to us.

Measures to conserve forests -

- (1) Forests should be made national heritage. They should

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be protecting by declaring them as reserved place.

- (13) Forests can be conserved by putting a ban on the woodcutters. May one who cuts the trees should be given punishment.
- (13) Forests can be conserved by putting forest to population explosion. This will definitely provide some resistance to forest cuttings.
- (14) They can be conserved by growing more and more trees. In this way they will be lasted long.

### Short-Type Questions

- (10) Real Images OR VIRTUAL IMAGES:-

"A image is that which is formed by intersection of two or more rays of light from an object". The image formed can be real and virtual. These are the two types of images which can be formed by lenses or mirror.

Real Images - The images which can be obtained on a screen is known as Real Images. In other words "Real Images are those which really exists". The images which we see on T.V or in cinema are the examples of Real Images. The real images are always inverted. They are formed when two rays coming from the object intersect at a point before the mirror. They are always formed in front of the

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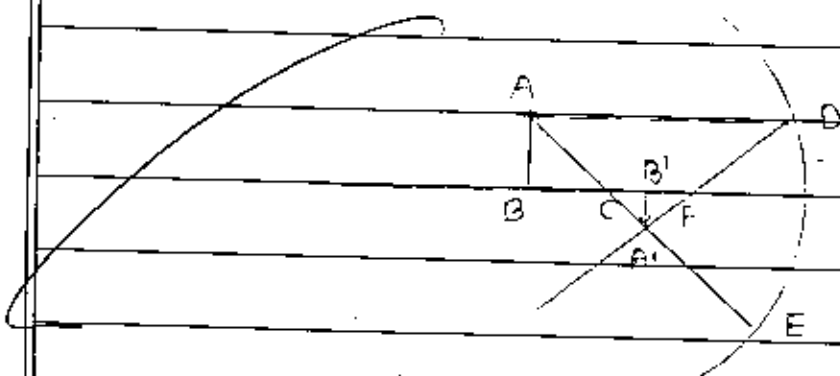
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mirrors. They never forms on the mirrors or behind the mirrors. They are always formed when an object is kept out of the focus of the mirror means if the focus is 5 cm so object should be kept at a distance more than 5 cm i.e. 6 cm or 7 cm. The concave mirror forms real images and convex lens forms real images.

DIAGRAM -



Formation of real image

**VIRTUAL IMAGES :-** The virtual images are those images which cannot be obtained on a screen is called virtual image. The image which we see on plane mirror is the best example of virtual images. The virtual images are always erect. They are illusive because rays actually do not pass through a point or rays actually do not meet at a point. They are always formed behind the mirrors. They never forms in front of mirrors. They are always

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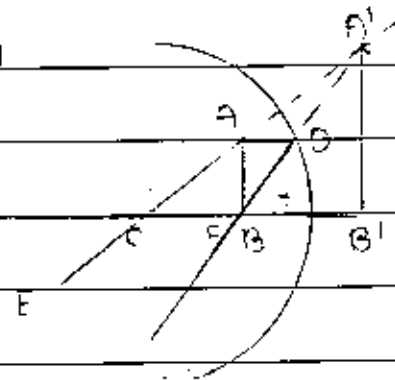
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formed when object is kept within the focus. means if the focus is 5 cm from pole so object should be placed within the 5 cm. The convex mirror and concave lens forms virtual images.

DIAGRAM



Formation of virtual image

DIFFERENCE BETWEEN VIRTUAL AND REAL IMAGES

	VIRTUAL	REAL
1.	This can be <sup>not</sup> obtained on a screen	1. This can be obtained on screen
2.	It is always erect.	2. It is always inverted
3.	The rays actually does not meet at a point.	3. The rays actually meet a point.
4.	The image of object as a witness on a T.V.	4. The image of a object in plane mirror.

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Answer-101

SOLAR COOKER - Solar cooker is a device which is used to cook food by the help of sunlight. This is based on the principle of solar heating devices. The easy principle of solar cooker is that food is cooked in a solar cooker by keeping the food in sunlight for a considerable time.

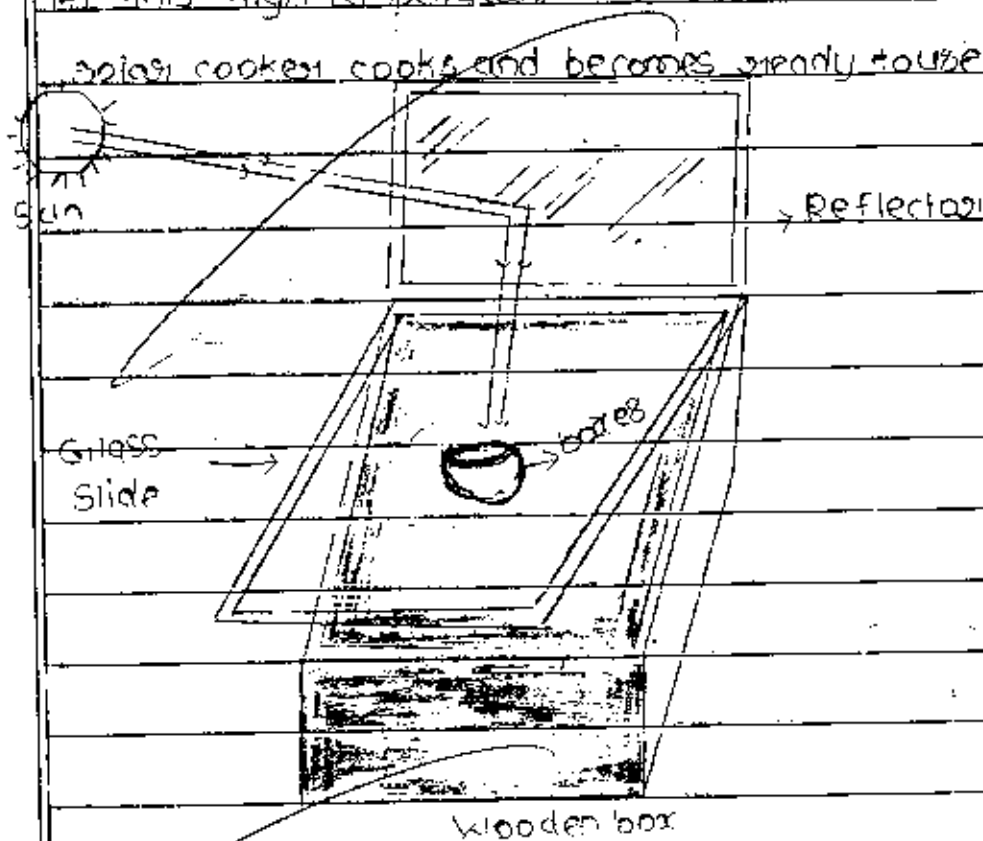
Construction - A solar cooker is made up of a wooden rectangular box. The rectangular box is lined with black colour at the bottom & painted black from all sides. The solar cooker has a reflector which reflect the sunlight rays falling on it. It has also a (glass) cover which is kept over the wooden box. Solar cooker consist of black containers which are also painted black from all sides because black colour is the best absorber of light rays.

Mechanism - The solar cooker works on the simple principle that black colour is the best absorber of light rays. When sunlight rays comes on the earth, they can be used by using a solar cooker. Solar cooker should be placed in such place where there is sufficient light. The reflector of

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the solar cooker, should be placed in such a way the reflector faces the sunlight. When the light rays coming from the Sun falls on the reflector, the reflector reflect it inside the solar cooker. These light rays are of short wavelength when enters into solar cooker, becomes large wavelength. The glass fitted over it does not allow the light rays to escape through it. The light rays cannot escape from it. Hence temperature inside the solar cooker rises upto  $100^{\circ}\text{C}$  to  $140^{\circ}\text{C}$ . At this high temperature the food materials kept inside the solar cooker cooks and becomes ready to use.



Uses of solar cooker :-

- 1) Solar cooker is very useful for the purpose of cooking. Cooking materials can be cooked in a solar cooker within short span of time.

$$\frac{1}{2} + \frac{1}{2} = 1$$



- (2) Solar cooker is used to cook rice, chapati, Aloo and chapati can be cooked in a solar cooker.
- (3) By using solar cooker, we are saving traditional sources of energy. So solar cooker cooker is very useful.
- (4) This type of solar cooker make the food which is very nutritional. So it is very useful.

Answer-10

Pollination → The transfer of anthers of a stamen to the stigma of carpel is known as pollination.

Pollination is the asexual method of reproduction in a plant. Pollination occurs in two ways - (1) self pollination  
(2) cross pollination.

(1) Self pollination - when the anthers of a stamen is transferred to the stigma of the same flower then it is called self pollination. example pea, wheat etc.

(2) Cross pollination → when anthers of a stamen is transferred to the stigma of another flower (or another plant) then it is called cross pollination. example jasmine, palm etc.



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### Self pollination

(1) It gives rise to pure lines i.e. the hybrid obtained is pure.

(2) The flowers used in self pollination are not attractive i.e. they have not good smell and odour.

(3) No agency is required for the transfer of pollen grains.

(4) It can occur in closed flowers.

(5) It preserves the parental characters.

### Cross pollination

(1) It occurs in the variations i.e. it means that it gives rise to characters having variations.

(2) The flowers used in cross pollination are attractive and have good smell and odour.

(3) Agency like water, air, insects, animals are used for the transfer of pollen grains.

(4) It occurs only when flower is open.

(5) It does not preserve the parental characters.



Long Answer Type Questions -

(33)

Electric motor

Definition - Electric motor is a device which converts the electric energy into mechanical energy. Every motor has a shaft or spindle attached to it which rotates continuously. Electric motors are used in fans, refrigerator, washing machines. It produces direct current. So it is also called D.C current.

Principle - Electric motor utilizes the magnetic effect of current. The motor works on the principle that when a rectangular coil is placed in a magnetic field and current is passed through it, a force acts on the coil which rotates it continuously. As the coil rotates, the shaft attached to it also rotates. In this way electric energy supplied to motor converts into mechanical energy.

Main parts of electric motor -

(1) Field magnet NS - The field magnets are used in place of electric magnets. This is permanent magnet whose poles are concave.

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(2) Coil or Armature - It consists of coil or armature. The coil is wrapped with large turns of copper wires wound on soft iron core.

(3) Commutator - A commutator is a device which is used to reverse the direction of current in a circuit. It consists of two halves of metallic ring. The two ends of armature coil is attached to two halves of metallic ring.

(4) Brush (P and Q) - The function of brush is to maintain its connection with metallic ring and to supply current through it. The brush P and Q are attached against the commutator. The battery is applied across its end. This supplies current in the circuit.

Working of a Motor -

When an electric current is passed into the coil it creates a magnetic field. The magnetic field of armature base-shoe type magnet then interacts with magnetic field of coil, it causes coil to move.

Consider ABCD a horizontal coil when current is passed it passed through commutator <sup>X</sup> P and brush Q and leaves via ring Y and brush R.

(i) The direction of magnetic field is from N to S.  
The direction of current in coil is from A to B and in CD.

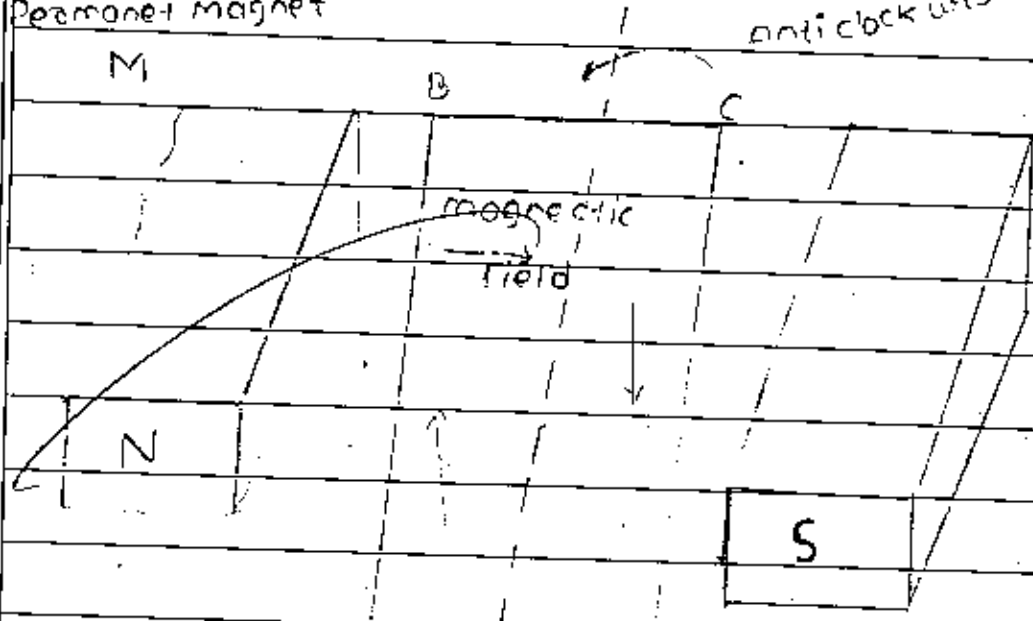
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From C to D. This current and magnetic field causes the coil to move. AB is pushed upward and CD is pushed downward. In this way AB and CD are acted on it. This makes the coil to rotate its continuously.

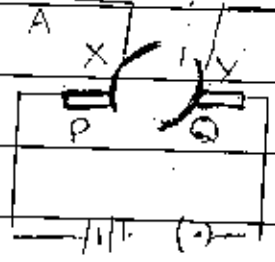
(ii) As the coil rotates then spindle attached to it also rotates. If shaft rotates then it can be used in any type of work such as fan running fan. This is the working of electric motor.

Permanent magnet



anticlockwise direction

Labelled diagram



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# माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल

- केन्द्र क्रमांक: 2023  
17.03.09
- केन्द्र की सील
  - पर्यवेक्षक के हस्ताक्षर व दिनांक
  - केन्द्राध्यक्ष के हस्ताक्षर की सील
  - केन्द्र क्रमांक
  - परीक्षा का नाम हाई स्कूल परीक्षा
  - विषय Science      8. माध्यम English
  - दिनांक 17/03/09
  - पृष्ठ

परीक्षक के लिये  
स्टीकर तीर के निशान से मिलाकर लगायें



Answer - 11

Physical properties of metals:

(1) metals are malleable and ductile.

Metals are malleable and ductile. This means that iron on hammering breaks into sheets. This property is called malleability.

On hammering, iron can also be used to draw into wires. This property is called ductility.

(2) Metals have high melting point and boiling point.

Metals are those elements which have high melting point and boiling point. The metals like iron. The melting point of iron is  $1053^{\circ}\text{C}$ .

(3) metals are strong, good conductors of electricity.

The metals are strong i.e. They have the power to resistance. They don't break up easily.

They are good conductivity of

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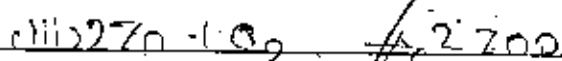
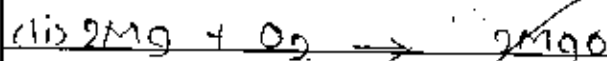
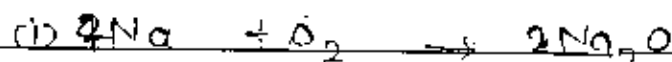


heat and electricity. That is metals allow electric current to flow through them.

### Chemical properties of Non-metal:

(i) Reaction with  $O_2$   $\rightarrow$  Non metal reacts with  $O_2$  to form metallic oxide.

Metal + oxygen  $\rightarrow$  metallic oxide

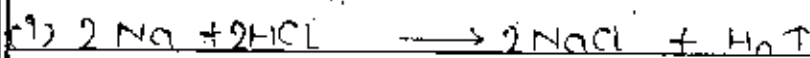


### Reaction with acids $\rightarrow$

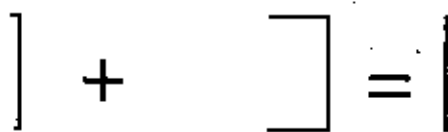
metals reacts with acids to form salt and

liberate  $H_2$  gas

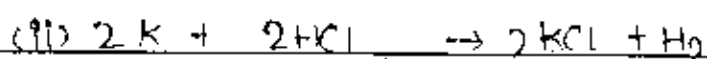
Metals + Acids  $\rightarrow$  Salt +  $H_2$



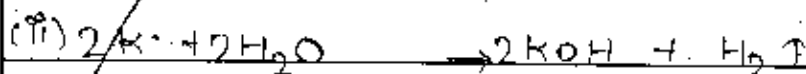
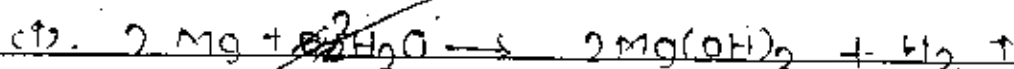
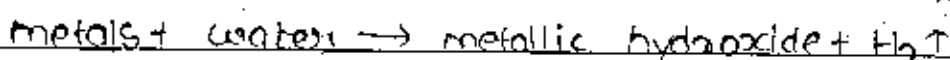
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(iii) Reaction with water - metals reacts with water to form metallic hydroxide and  $H_2$  gas.

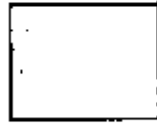


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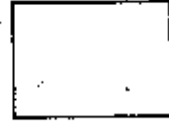
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