

केवल मूल्यांकनकर्ता के उपयोग हेतु!

माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल

32 पृष्ठीय

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

प्रश्न क्रमांक	पृष्ठ क्रमांक	प्रश्न क्रमांक	पृष्ठ क्रमांक
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13			
14			
15			
16			

परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे

प्रमाणित किया जाता है कि अंक प्रविष्टि प्रमाणित किया जाता है कि अंक प्रविष्टि निर्धारित मुद्रा: नाम, पदनाम, संस्था का नाम

उपमुख्य परीक्षक
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G.H.S.S. KANHWA
Valuer No. 021021
Mob.No.7879418995

मुख्य पृष्ठ पर अंकों की प्रविष्टि एवं अंकों का योग सही है।
प्रश्न क्रमांक एवं पदांकित संस्था के नाम की मुद्रा लगाए।

मुद्रा

परीक्षक के हस्ताक्षर एवं निर्धारित मुद्रा
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Valuer No. 030727

प्रश्न क्र.

Answer no. - 01

(i) The common name of the compound CaOCl_2 is:-
"Bleaching powder"

(ii) Gold is the metal that does not corrode easily.

(iii) Alloys are the homogeneous mixture of metals and metal and non-metal.

(iv) Cerebrum is a part of our brain that detects the smell.

(v) Chemical impulse is generated at the synapse between two neurons.

(vi) KWh (killowatt hour) is the commercial unit of electric power.

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प्रश्न क्र.

Answer no. - 02

B
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[i] (b) Double displacement reaction.

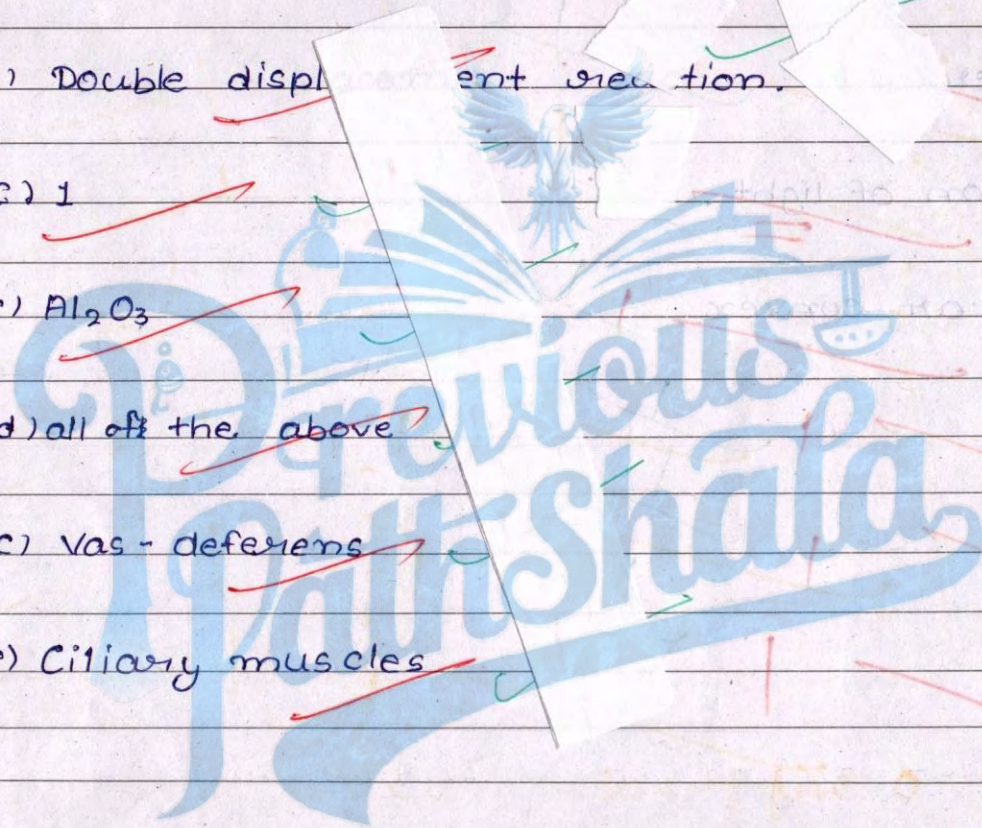
[ii] (c) 1

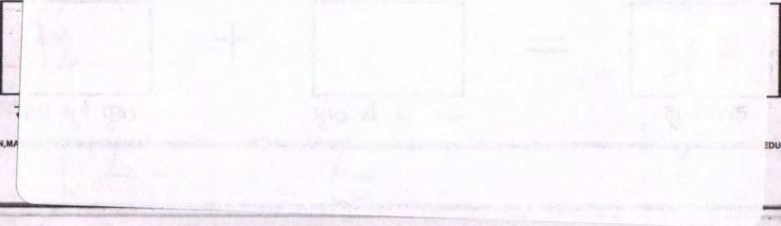
[iii] (c) Al_2O_3

[iv] (d) all of the above

[v] (c) vas - deferens

[vi] (c) ciliary muscles





प्रश्न क्र.

Answers 20-03

[i] voltmeter ✓

[ii] dispersion of light ✓

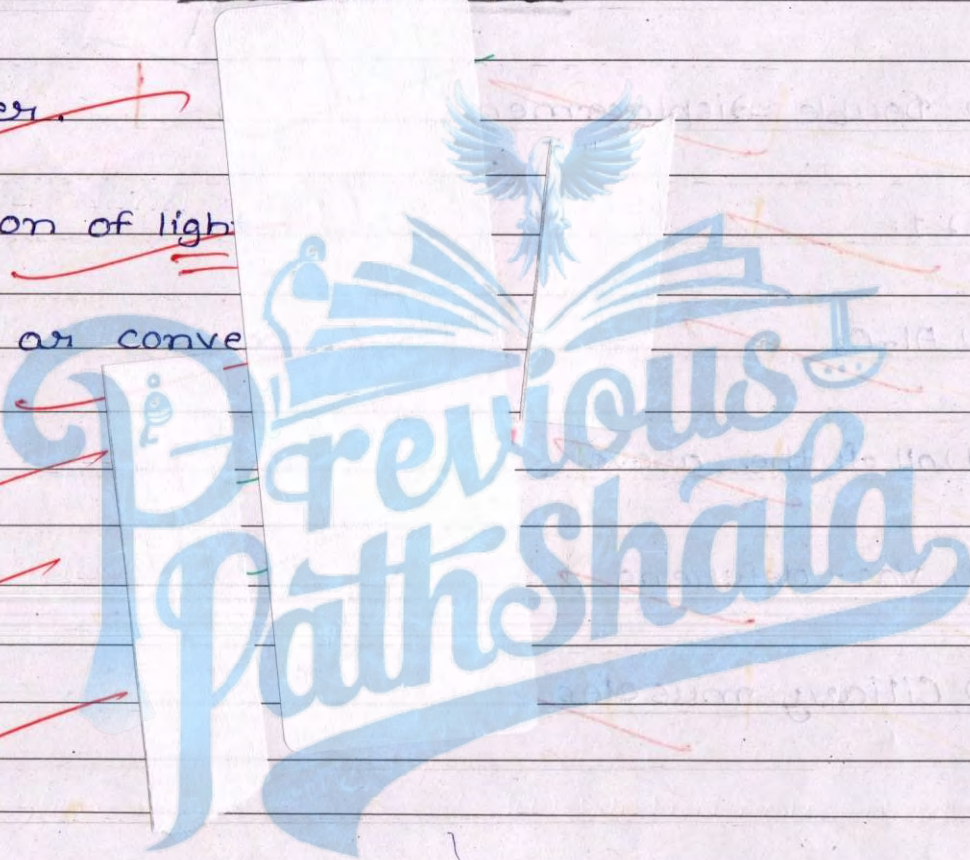
[iii] plane or convex ✓

[iv] gene ✓

[v] yeast ✓

[vi] pituitary ✓

B
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प्रश्न क्र.

Answer no. - 04

(i) True

(ii) False

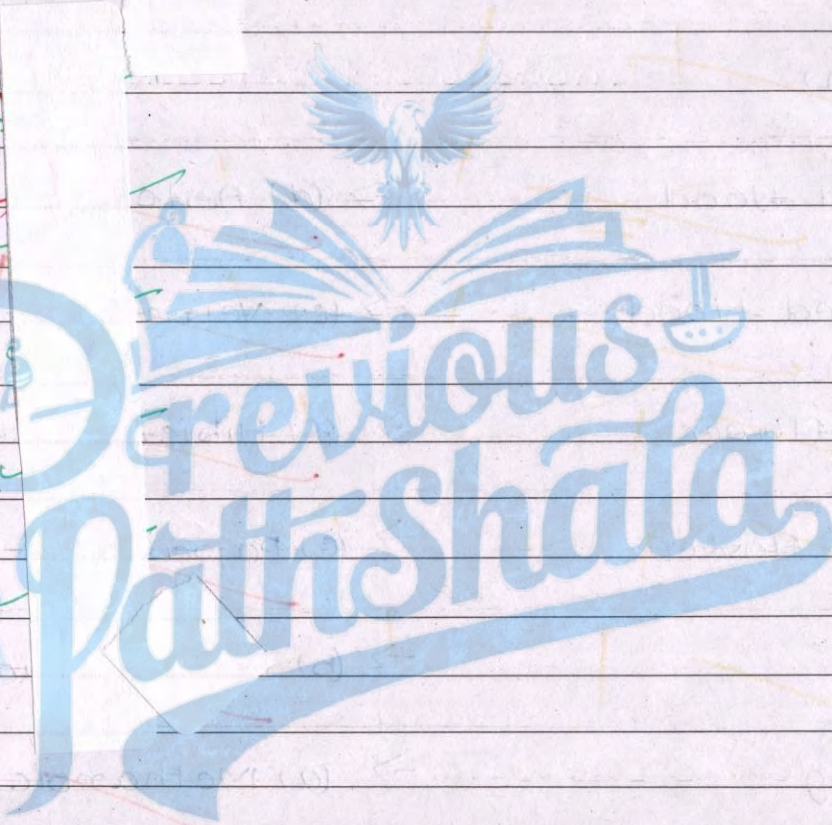
(iii) True

(iv) False

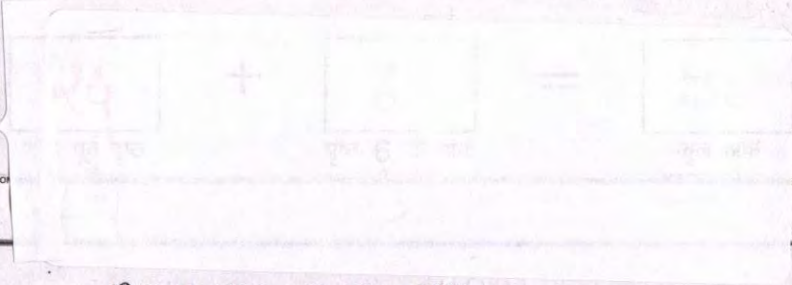
(v) True

(vi) False

B
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6



प्रश्न क्र.

Answer no. - 05

(A)

(B)

(i) Oxygenated blood

→ (d) Arteries

(ii) Deoxygenated blood

→ (c) Veins

(iii) Bisexual flower

→ (f) Hibiscus

(iv) Unisexual flowers

→ (e) Papaya

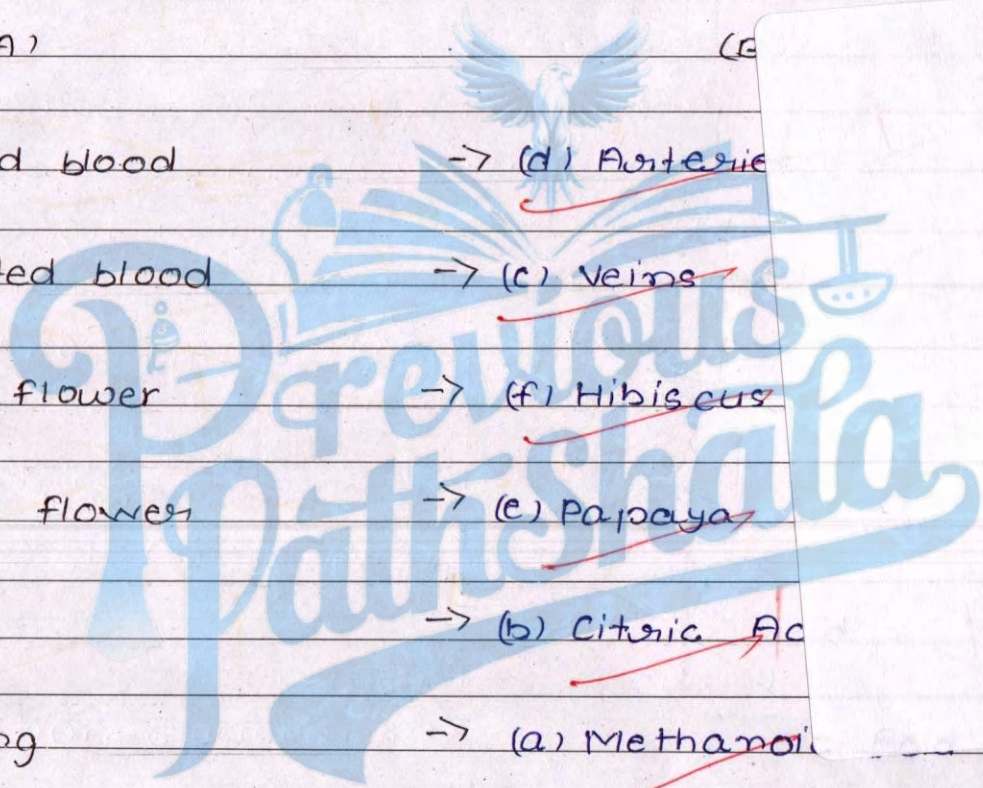
(v) Orange

→ (b) Citric Acid

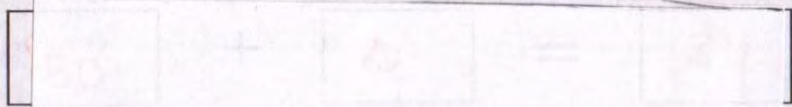
(vi) Ant sting

→ (a) Methanoic acid

B
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7



प्रश्न क्र.

Answer no.-06 [0.5]

Two properties of magnetic field lines are:-

- (1) Magnetic field lines are closed curves.
- (2) Magnetic field lines emerge from north pole and merge in south pole.
- (3) Magnetic field lines never intersect each other.

B
S
E

Answer no.-07 [0.5]

Ozone:- Ozone is a molecule of three oxygen atoms. There is a layer of ozone in the stratosphere.

Effect:- Ozone layer stops the ultraviolet rays from sun to entering in atmosphere.



Answer no.-08 [अ]

The colour of copper sulphate solution changes from blue to green, when an iron nail is dipped in it because iron (Fe) is more reactive than copper. So, it displaces copper from copper sulphate solution and forms iron sulphate [FeSO_4], which is in green colour.

i.e. \Rightarrow

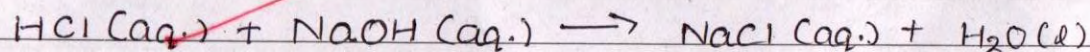


Answer no.-09 [अ]

Neutralisation reaction:-

A reaction where acid and base react together to form salt and water is known as neutralisation reaction.

Ex.-

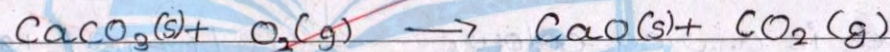


Answer no. 10

Calcination:-

It is a process of extracting a metal from its carbonate ore ^{by heating} in the presence of limited amount of air.

Ex.

B
S
E

Answer no. 11

Properties of Ethanol:-

- (i) Ethanol is sweet and has burning taste.
- (ii) Ethanol is flammable.
- (iii) Ethanol is added in water in any proportion.



प्रश्न क्र.

Answer no. - 12 [60]

B
S
F

Blood	Lymph
(i) Blood is a <u>red</u> colour fluid.	(i) Lymph is a <u>colourless</u> fluid.
(ii) Blood circulates in <u>circulatory system</u> .	(ii) Lymph is a part of <u>lymphatic system</u> .
(iii) Blood contains <u>WBC, RBC, Plasma, platelets, etc.</u>	(iii) Lymph contains <u>WBC, plasma, platelets.</u>
(iv) Contains more <u>fibrous protein.</u>	(iv) Contains less protein.

प्रश्न क्र.

Answer no. - 13 [02]

Function of each plant hormones:-

- (i) Auxin -
- It promotes cell development in root and shoot.
 - It promotes phototropism and geotropism.
- (ii) Gibberellins -
- It promotes cell division in stem.
 - It promotes seed germination.

Answer no. - 14

The name of modes of reproduction used by single cell organisms are:-

- (i) Fission
- (ii) Budding
- (iii)



प्रश्न क्र.

Answer no. - 15

Given:- a convex mirror, radius of curvature (R) = 38cm.

To Find:- focal length (f) = ?

Solution:-

$\therefore 2f = R$

$\Rightarrow 2f = 38\text{cm}$

$\Rightarrow f = \frac{38\text{cm}}{2}$

$\Rightarrow f = 19\text{ cm}$

Hence, the focal length of convex mirror is 19 cm.

P.T.O.

B
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प्रश्न क्र.

Answer no.-16Twinkling of stars:-

The phenomenon of twinkling of stars is due to atmospheric refraction. Stars are seen as point-sized source of light. The apparent position of stars is keep deviating because earth position is not stationary. The light comes sometimes bright and sometimes dim, this is known as twinkling of stars.

Answer no.-17Electric Current:-

“The rate of flow of charge from the^a cross-section of a conductor is defined as electric current.”

It is represented by 'I'.

SI unit:- Ampere (A)



प्रश्न क्र.

Answer no. - 18 [an]

(i) Let us assume that two magnetic force lines intersect each other. Then at the point of intersection, two direction is shown by tangent which is not possible. Hence, we can conclude that magnetic force lines do not intersect each other.

Unit of magnetic field strength is Tesla.

(ii) Fuse wire:- Fuse wire is safety device appliance used in series circuit. When over current is passed through it, it melts and break the circuit thus prevent overloading and fire.

P.T.O.

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39. 33.9mm x 16



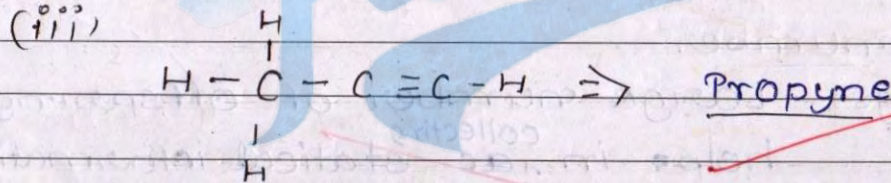
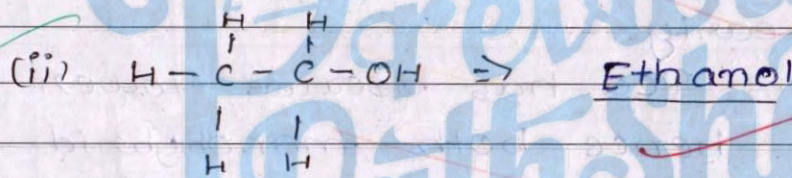
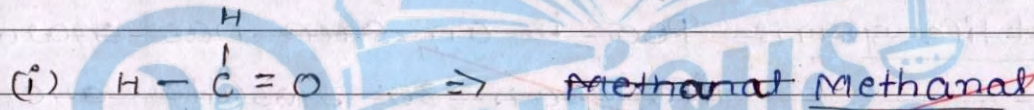
प्रश्न क्र.

Answer no. - 19

Hydrocarbons :- "Compounds made up of carbon and hydrogen are known as hydrocarbons."

Answer no. - 19 (cont)

B
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E



Label MS-16



Answer no. - 20

Mendel has selected pea plants for experiments because of the following reasons:-

(1) Short life span:- Pea ~~is an ann~~ has short life span so results are shown ~~early~~.

(2) Bisexual flower:- Pea has bisexual flower hence both ~~monohybrid~~ and ~~dihybrid~~ cross can be performed.

(3) Large no. of number of offsprings:- Large number of offsprings help in ^{collecting} ~~are~~ statistical information.

(4) Many characters:- Pea has many character so, large number of traits can be studied.



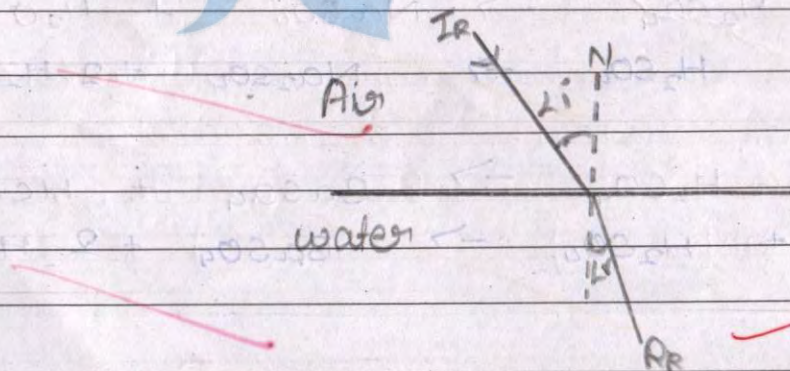
प्रश्न क्र.

Answer no. - 21 [अ]]

(i) Refraction :- "The phenomenon of bending of light from one transparent medium to another transparent medium is called refraction."

Law of refraction :-

- (1) Incident ray, refracted ray and normal to the interface of two media at the point of incidence all lie in the same plane.
- (2) The ratio of sine of angle of incidence to the sine of angle of refraction is always constant. This is also known as Snell's law. $\left[\frac{\sin i}{\sin r} = n \right]$



I_r = Incident ray

R_r = refracted ray

N = normal

L_i = angle of incidence

L_r = angle of refraction

B
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E

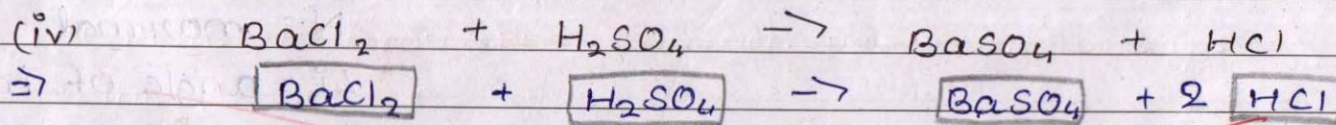
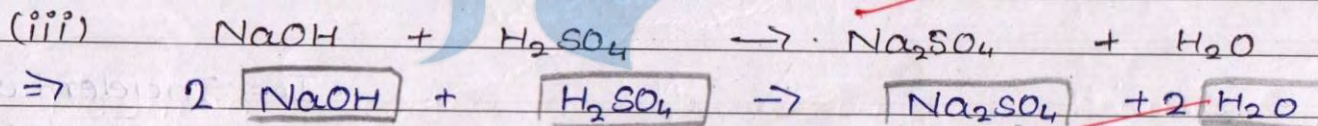
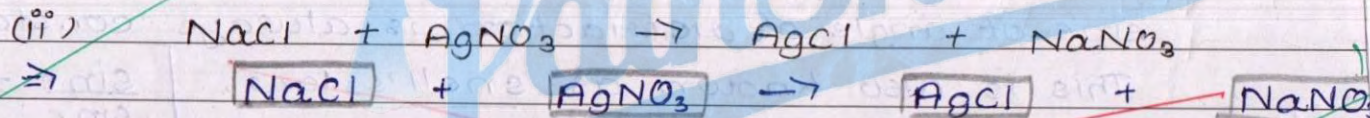
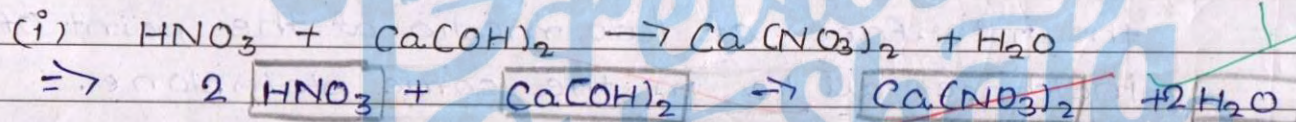


प्रश्न क्र.

(ii) Use of concave mirror:-

- (1) It is used in headlight of vehicles.
- (2) It is used in solar furnaces.

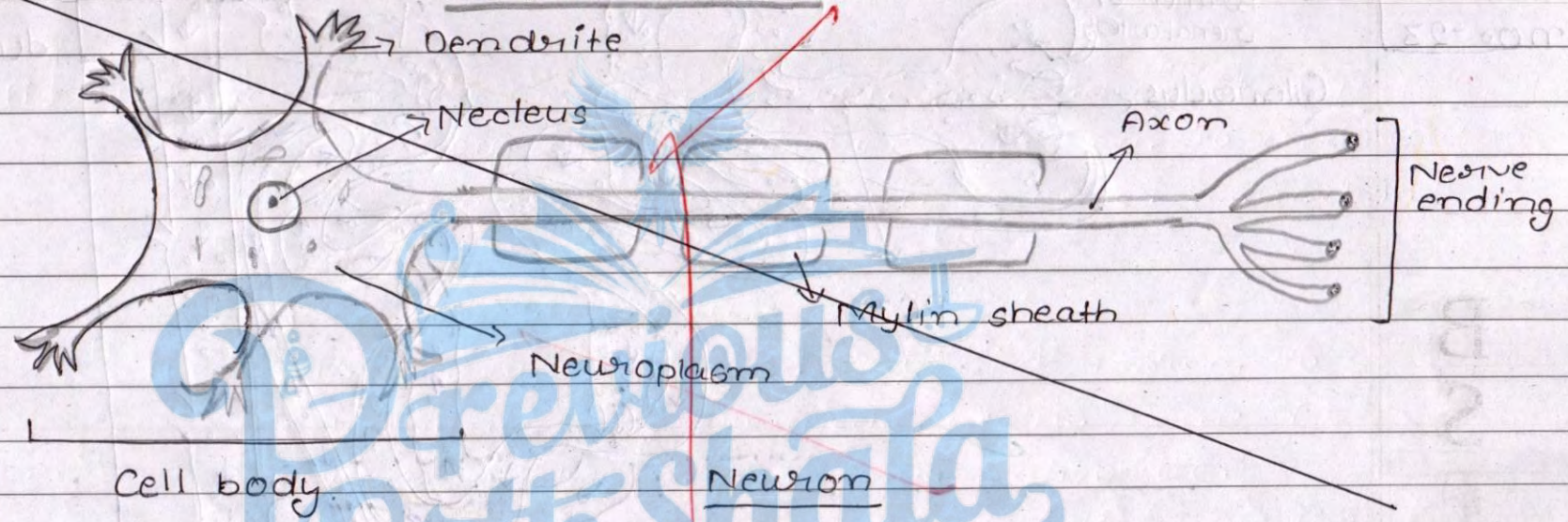
Answer no-22 [05]

B
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99 1x33 9mmx16

प्रश्न क्र.

Answer no. - 10



B
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P. To O.

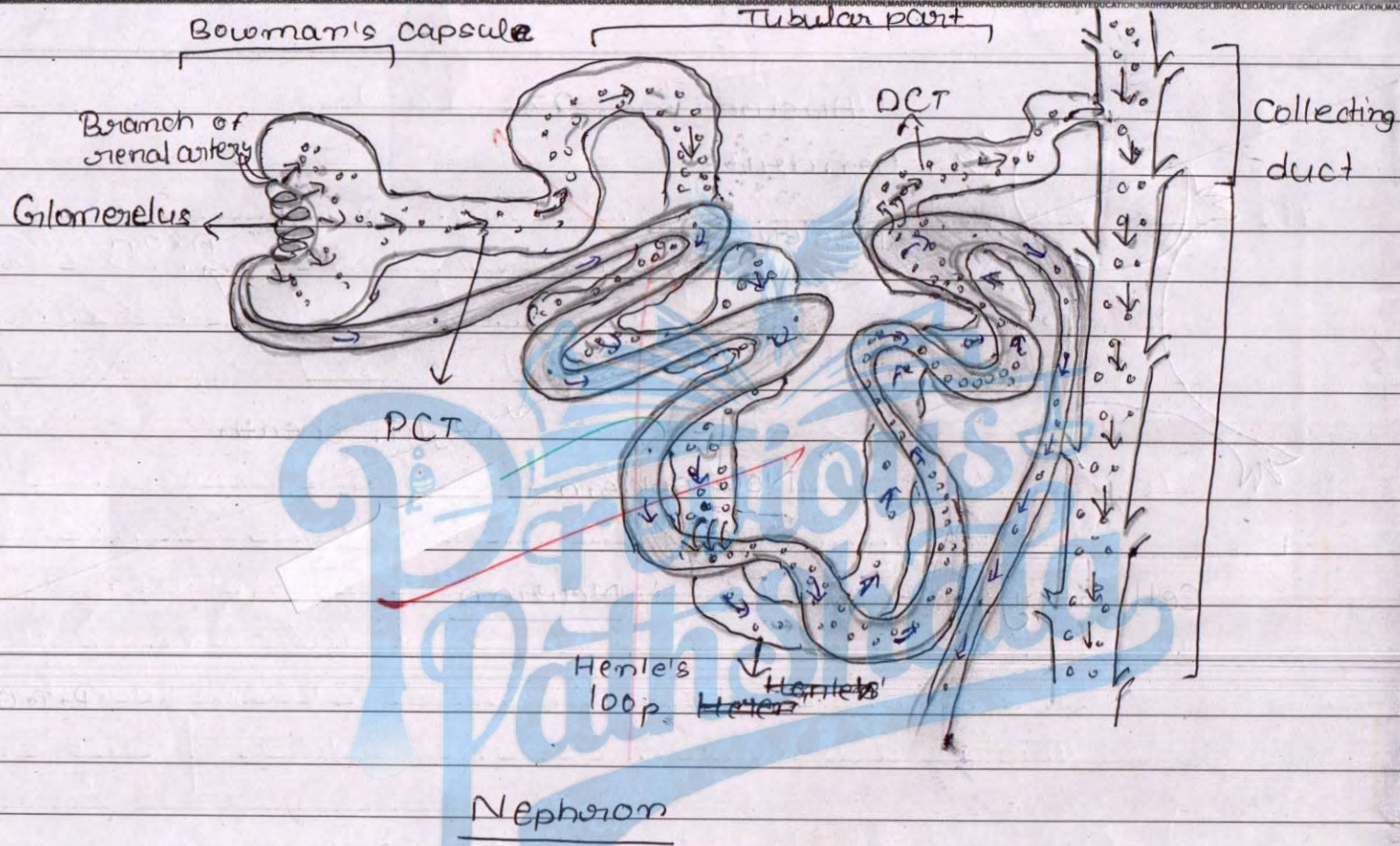
Neuron is the structural and functional unit of nervous system. The metabolic waste is brought by blood of renal artery. The process is given:-



प्रश्न क्र.

Answers
no. - 23

B
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Nephron is ~~a~~ the structural and functional unit of excretory system. The metabolic waste is brought ~~by~~ branch of renal artery. The process is given:-

(1) Initial Filtration:- All major wastes like urea, salt, water, etc. are filtrate at bunch of blood vessels known as glomerulus, the initial filtrate is secreted into Bowman's capsule.

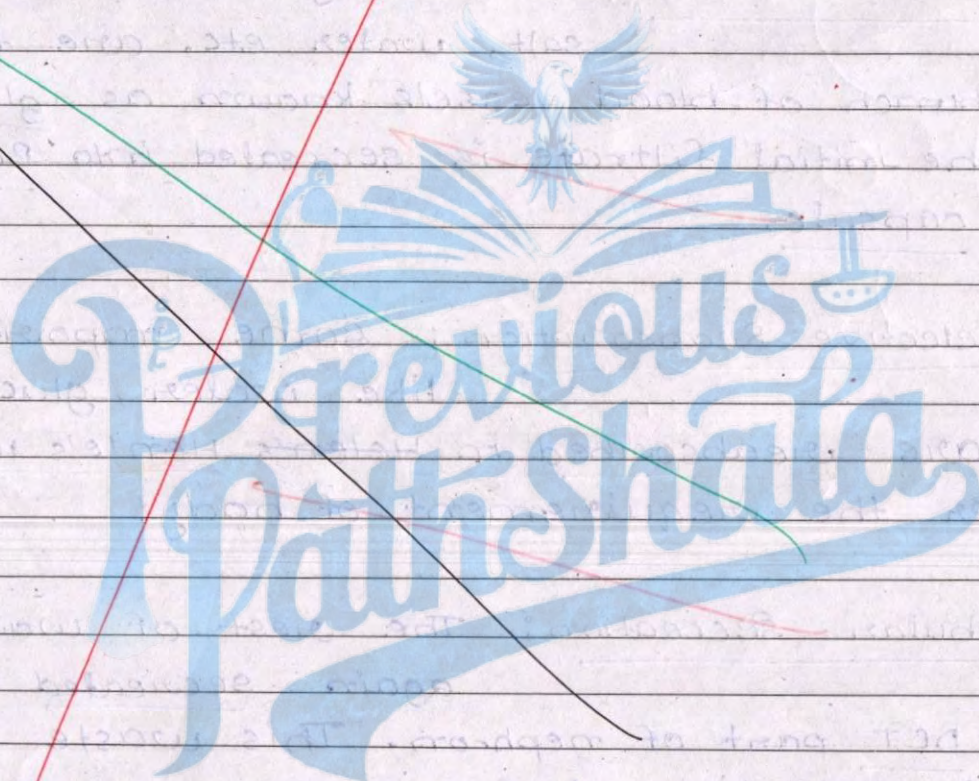
(2) Selective Reabsorption:- Some importance material like water, glucose, etc. are reabsorbed in Helen's Henle's loop as per the requirement of body.

(3) Tubular Secretion:- The rest of waste is again secreted into DCT part of nephron. This waste is moved in collecting duct and then to ureter and temporarily stored at urinary bladder.
Urine is secreted out of the body through urethra.



प्रश्न क्र.

B
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E



A