	Screen		
	White light R R White light		
	(award full marks even if only labelled ray diagram is given)		
	OR (c) (ii)		
	Sunlight	2	
	(deduct ½ marks if arrows are not marked)		4
39.	(a) P – pH 0 to 4	1/ <sub>2</sub> 1/ <sub>2</sub>	
	Q – pH 12 to 14 (b) (i) By adding sodium hydroxide (or any other base)	1/2	
	(ii) By adding hydrochloric acid (or any other mineral or strong acid)	1/2	
	(c)		
	(i) • Hydronium ion (H <sub>3</sub> O <sup>+</sup> /H <sup>+</sup> ) ion concentration increases.	1	
	Colour will change from yellow/orange to red/pink	1	
	OR		
	(c) (ii) • low pH/ between 1 to 3	1	
	by the use of antacids/milk of magnesia/sodium hydrogen carbonate	1/2	
	Magnesium hydroxide/Mg(OH)2	1/2	4

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	H H H H H H H H H H H H H H H H H H H	1/2	5
36	(a) (i) Animals (Herbivores) eating grass need a longer small intestine to digest cellulose. Meat is easier to digest, hence meat eating animals (Carnivores) have shorter small intestine.	2	
	(ii) Role of Pancreas – Secrete pancreatic juice which contains trypsin for digesting proteins, lipase for breaking down emulsified fats.	1	
	Role of Bile- Bile emulsifies fats and makes the medium alkaline in the small intestine so that pancreatic enzymes can act.	1	
	(iii) The inner lining of the small intestine has numerous finger-like projections called villi which increase the surface area for absorption of food. The villi are richly supplied with blood vessels which take the absorbed food to each and every cell of the body.	1	
	(b) (i) 'Rings of cartilage' ensures that the air passage does not collapse in absence of air.	1	
	(;;)		
	(ii) Ribs are lifted → Diaphragm flattens → Chest cavity become larger → Air is sucked into the lungs (Alveoli) and we breathe in	2	
	(iii) Due to lack of oxygen in our muscle cells (anaerobic respiration), pyruvate is converted into lactic acid, build-up of lactic acid in our muscles causes cramps.	2	5
	SECTION E		
37.	(a) Oviduct/ fallopian tube	1	
	(b) The lining of uterus thickens (it becomes spongy) and is richly supplied with blood to nourish the growing embryo.	1	
	(c) (i) The uterine lining slowly breaks down and comes out as blood and mucous along with unfertilized egg. Hence, menstruation will occur.	2	
	OR		
	(c) (ii) With the help of special tissue called Placenta which is embedded in uterine wall. It provides oxygen, nutrients from mother to	2	4
38.	embryo.  (a) Dispersion of light	1	
30.	<ul><li>(b) Different colours of light bend through different angles with respect to the incident ray as they pass through a prism.</li><li>(c) (i) Two identical prisms are placed in inverted position with</li></ul>	1	
	respect to each other as shown. When spectrum produced by prism A is passed through the prism B, a beam of white light emerges from the other side of the prism B.	2	

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(iv) 
$$2\text{CH}_3\text{COOH} + \text{Na}_2\text{CO}_3 \longrightarrow 2\text{CH}_3\text{COONa} + \text{CO}_2 + \text{H}_2\text{O}$$
(X) Sodium acetate/sodium ethanoate

(balancing of equation is not mandatory)

OR

(b) (i)

Saturated hydrocarbons

Compounds which have single covalent bond

Compounds which have at least one double or triple bond between

Saturated hydrocarbons	Unsaturated hydrocarbons	
Compounds which have single covalent bond between all carbon atoms. / Compounds with general formula $C_nH_{2n+2}$	Compounds which have at least one double or triple bond between carbon and carbon atom. / Compounds with general formula $C_nH_{2n}$ and $C_nH_{2n-2}$	1
Example – Propane  H H H	Example – Propene- CH <sub>2</sub> =CH-CH <sub>3</sub> /  H H H – C = C – C – H H H H H / H	1
(any other)	Propyne $H - C \equiv C - C - H$ H	
	(any other)	

(ii)

• Addition of hydrogen in presence of Ni or Pd / Hydrogenation

$$\mathbf{H} \searrow \mathbf{C} = \mathbf{C} \nwarrow \mathbf{H} \xrightarrow{\mathbf{H}_2} \mathbf{H} - \mathbf{H}_2 \xrightarrow{\mathbf{N}_1/\mathsf{Pd}} \mathbf{H} - \mathbf{H}_1 \overset{\mathbf{H}}{\to} \mathbf{H}$$

(or any other)

• It is used in the hydrogenation of vegetable oil.

(iii) Butene

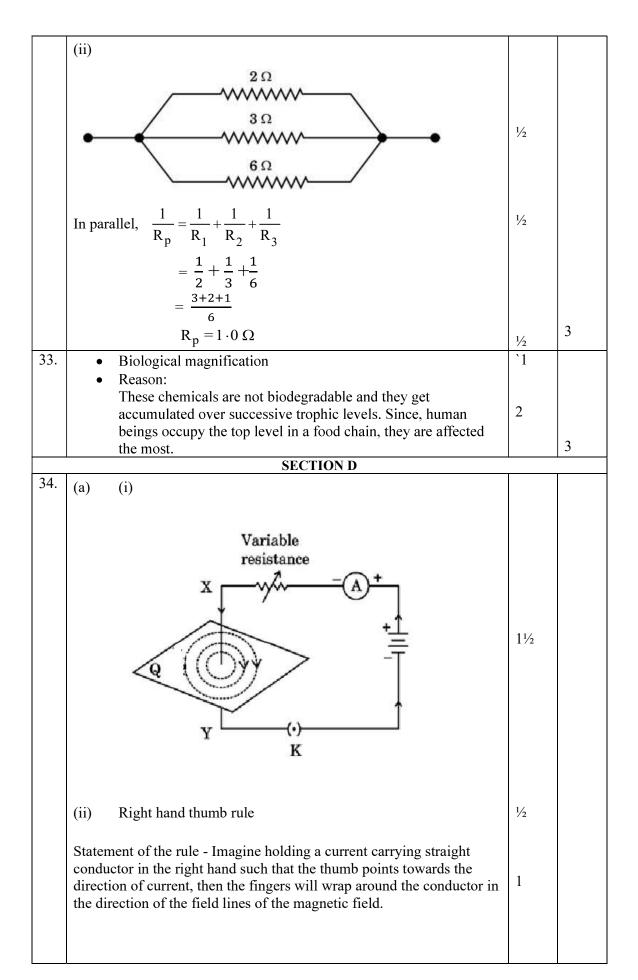
1/2

1

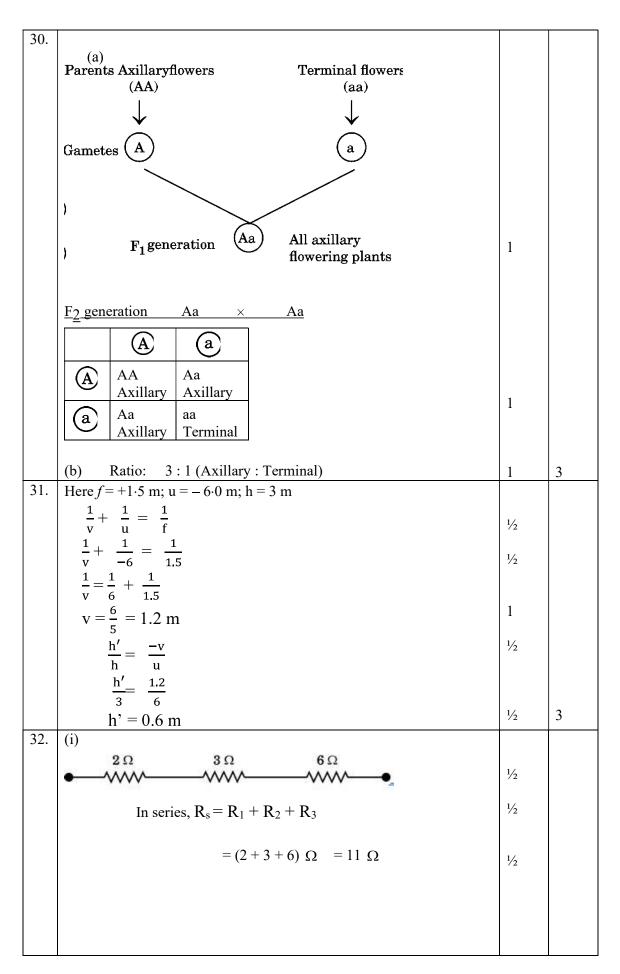
1

	(:::)	1	
	<ul> <li>According to Fleming's left-hand rule, stretch the thumb, forefinger and middle finger of your left hand such that they are mutually perpendicular. If the first finger points in the direction of magnetic field and the second finger in the direction of current, then the thumb will point in the direction of motion or the force acting on the conductor.</li> <li>Out of the plane/ upwards</li> </ul>	1	
	OR		
	(b) (i) Solenoid is a coil of many turns of insulated copper wire wrapped closely in the shape of a cylinder.  magnetic field lines  current	1	
	Diagram	1½	
	Marking (i), (ii) and (iii)	½ ×3	
	(ii) By inserting a piece of magnetic material like soft iron inside the	1	5
35.	current carrying solenoid.  (a) (i) X - Ethanoic acid/ Acetic acid	1/2	
	H-C-C H-COOH / CH₃COOH	1	
	(ii) pH of 'X' will be higher than that of a mineral acid.	1/2	
	(iii) Esterification reaction	1/2	
	$CH_{3}COOH + CH_{3}CH_{2}OH \xrightarrow{Acid} CH_{3} - COOCH_{2}CH_{3} + H_{2}O$ (X) (or reaction with any other alcohol)	1	

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Page **6** of **11** X\_086\_31/2/3

• CaCO <sub>3</sub> (s) Heat → CaO(s) + CO <sub>2</sub> (g)  • 2AgCl (s) Sunlight → 2Ag(s) + Cl <sub>2</sub> (g)  • 2H <sub>2</sub> O (l) Electric Ourrent → 2H <sub>2</sub> (g) + O <sub>3</sub> (g)  (any other suitable example)  (ii) because energy (heat) is released.  OR  (b)  • In combination reaction single product (substance) is formed from two or more reactants (substances) whereas in decomposition reaction a single reactant (substance) breaks down to give two or more products (substances) breaks down to give two or more products (substances). So, the two are opposite.  Example of combination reaction  C(s) + O <sub>2</sub> (g) → CO <sub>2</sub> (g) + Heat Carbon Oxygen Carbon dioxide  Example of decomposition reaction  CaCO <sub>3</sub> (s) Heat → CaO(s) + CO <sub>2</sub> Calcium carbonate Calcium Oxide Carbon dioxide  (any other suitable example)  (do not deduct marks if physical state not given)  28.  (a) X - Basic Y-Acidic → Y-Acidic → Y-Y-2  pH range 9-11 pH range 4-6  (b) 'A' - metal, because it forms basic oxide.  (b) 'A' - metal, because it forms basic oxide.  (b) 'A' - metal, because it forms basic oxide.  (b) 'A' - metal, because it forms basic oxide.  (c) (b) Example:  If the sugar level in blood rises, it is detected by cells of pancreas which respond to produce more insulin to lower blood sugar level.  As the blood sugar level falls, it is detected by the cells of pancreas and insulin secretion is reduced.  (or any other example)				
• 2H <sub>2</sub> O (I) Electric Current (any other suitable example)  (ii) because energy (heat) is released.  OR  • In combination reaction single product (substance) is formed from two or more reactants (substances) whereas in decomposition reaction a single reactant (substance) breaks down to give two or more products (substances) on, the two are opposite.  • Example of combination reaction  C(s) + O <sub>2</sub> (g) — CO <sub>2</sub> (g) + Heat Carbon Oxygen Carbon dioxide  • Example of decomposition reaction  CaCO <sub>3</sub> (s) — Heat — CaO(s) + CO <sub>2</sub> Calcium carbonate Calcium Oxide Carbon dioxide  (any other suitable example) (do not deduct marks if physical state not given)  28. (a) X - Basic Y-Acidic  pH range 9-11 pH range 4-6  (b) 'A' - metal, because it forms basic oxide.  (a) Hormones are chemical messengers (substances) which regulate body functions / Hormones are the biochemical substances produced in one part of the body and move to the target organ or tissue to regulate body function.  (b) Example:  If the sugar level in blood rises, it is detected by cells of pancreas which respond to produce more insulin to lower blood sugar level.  As the blood sugar level falls, it is detected by the cells of pancreas and insulin secretion is reduced.  (or any other example)		• $CaCO_3(s) \xrightarrow{Heat} CaO(s) + CO_2(g)$	1/2	
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CaCO <sub>3</sub> (s) Heat CaO(s) + CO <sub>2</sub> Calcium carbonate Calcium Oxide Carbon dioxide  (any other suitable example) (do not deduct marks if physical state not given)  28. (a) X - Basic Y-Acidic  pH range 9-11 pH range 4-6  (b) 'A' - metal, because it forms basic oxide.  29. (a) Hormones are chemical messengers (substances) which regulate body functions / Hormones are the biochemical substances produced in one part of the body and move to the target organ or tissue to regulate body function.  (b) Example:  If the sugar level in blood rises, it is detected by cells of pancreas which respond to produce more insulin to lower blood sugar level.  As the blood sugar level falls, it is detected by the cells of pancreas and insulin secretion is reduced.  (or any other example)			1	
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		If the sugar level in blood rises, it is detected by cells of pancreas which respond to produce more insulin to lower blood sugar level.  As the blood sugar level falls, it is detected by the cells of pancreas and insulin secretion is reduced.	2	
3		(or any concretant pro)		
				3

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23.	Movement of voluntary muscles (walking, writing)		
	• Thinking		
	• Hearing		
	• Sight (or any other relevant explanation)	2	
	(or any outer reterant emplanation)		2
24.	(a) (i) Protects the seed	1/2	
	(ii) Food storage area of the seed/ reserve food material	1/2	
	(iii) Develops into root on germination of seed/future root	1/2	
	(iv) Develops into shoot on germination of seed/future shoot <b>OR</b>	1/2	
	(b) In a test tube take10g sugar, add 100 ml of water and a pinch of yeast granules. Keep it in warm place for 1-2 hours.	2	2
25.	(a) Concave lens	1	2
	F	1	
	OR		
	(b)		
	(i)		
	$F_1$ $F_2$	1	
	(ii) Principal focus /Focus	1	2
26.	An electric fuse is placed in series with the device.	1/2	-
	Electric fuse is used to prevent the electric circuit from a		
	possible damage by stopping the flow of unduly high electric		
	current. If current larger than the specified value flows through	1½	
	the circuit, the fuse melts and breaks the electric circuit.	1 72	2
	SECTION C	I.	1 =
27.	(a) (i) A single reactant (substance) breaks down to give two or	1/2	
	more products.		

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# SECONDARY SCHOOL EXAMINATION, 2025 MARKING SCHEME

### CLASS: X [SCIENCE (Subject Code-086)]

[ Paper Code: SET 31/2/3]

**Maximum Marks: 80** 

	Maximum Marks: 80				
Q. No.	EXPECTED ANSWERS / VALUE POINTS	Marks	Total Marks		
	SECTION A				
1.	(C)/1:8	1	1		
2.	(C)/7.0  to  7.8	1	1		
3.	(C) / Sodium	1	1		
4.	(C) / Brass and Bronze	1	1		
5.	(B) / When it is heated with iron (III) oxide, molten iron is obtained.	1	1		
6.	(C)/ Right atrium receives deoxygenated blood from the body and	1	1		
	sends it to right ventricle				
7.	(C) / Change in amount of water in cells	1	1		
8.	(B) /Capillaries	1	1		
9.	(D)/ Stigma, style, ovary and ovule	1	1		
10.	(C)/ Ovary and testis both	1	1		
11.	(B)/ 110 W	1	1		
12.	(C) / 9 \Omega	1	1		
13.	(C)/ Ciliary muscles	1	1		
14.	(4) / 10	1	1		
	$A = \frac{10}{9}$				
15.	(B) / –20 cm	1	1		
16.	(C) / DDT, Polyester, Glass	1	1		
17.	(D)/ A is false, but R is true.	1	1		
18.	(A) / Both A and R are true and R is the correct explanation of A.	1	1		
19.	(C)/ A is true, but R is false.	1	1		
20.	(A) /Both A and R are true and R is the correct explanation of A.	1	1		
	SECTION B	1 -	-		
21.	(a) Displacement reaction	1/2			
	(a) Displacement reaction				
	$2AgNO_3 + Cu \longrightarrow 2Ag + Cu(NO_3)_2$	1/2			
	, , , , , , , , , , , , , , , , , , ,				
	(b) Electrolytic refining	1	2		
22.	The clusters of soap molecules in which the hydrophobic tails are in				
~~.	the interior of the cluster (towards oil) and the ionic ends are on the	1			
	surface of the cluster (towards water) is called a micelle				
	bullage of the cluster (to wards water) is called a lineone				
	Na*				
	Q \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	Quenta de la faction de la companya				
	Na* Oil droplet	1			
	Omerand Separation				
	o o o Nat				
	Na <sup>+</sup>		2		
		1			
		_[			

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12	Every examiner has to necessarily do evaluation work for full working hours i.e., 8 hours every day and evaluate 20 answer books per day in main subjects and 25 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in question paper.
13	<ul> <li>Ensure that you do not make the following common types of errors committed by the Examiner in the past:-</li> <li>Leaving answer or part thereof unassessed in an answer book.</li> <li>Giving more marks for an answer than assigned to it.</li> <li>Wrong totaling of marks awarded on an answer.</li> <li>Wrong transfer of marks from the inside pages of the answer book to the title page.</li> <li>Wrong question-wise totaling on the title page.</li> <li>Wrong totaling of marks of the two columns on the title page.</li> <li>Wrong grand total.</li> <li>Marks in words and figures not tallying/not same.</li> <li>Wrong transfer of marks from the answer book to online award list.</li> <li>Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.)</li> <li>Half or a part of answer marked correct and the rest as wrong, but no marks awarded.</li> </ul>
14	While evaluating the answer books if the answer is found to be totally incorrect, it should be marked as cross (X) and awarded zero (0)Marks.
15	Any unassessed portion, non-carrying over of marks to the title page, or totaling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously.
16	The Examiners should acquaint themselves with the guidelines given in the "Guidelines for Spot Evaluation" before starting the actual evaluation.
17	Every Examiner shall also ensure that all the answers are evaluated, marks carried over to the title page, correctly totalled and written in figures and words.
18	The candidates are entitled to obtain photocopy of the Answer Book on request on payment of the prescribed processing fee. All Examiners/Additional Head Examiners/Head Examiners are once again reminded that they must ensure that evaluation is carried out strictly as per value points for each answer as given in the Marking Scheme.

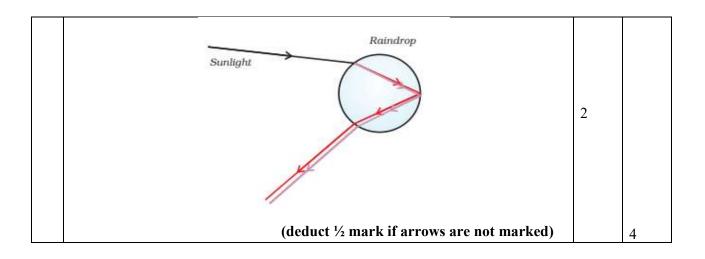
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#### Marking Scheme Strictly Confidential

# (For Internal and Restricted use only) Secondary School Examination, 2025 SUBJECT NAME: SCIENCE (Q.P. CODE 31/2/3)

Gen	eral Instructions: -
1	You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.
2	"Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its leakage to public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in Newspaper/Website, etc. may invite action under various rules of the Board and IPC."
3	Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. However, while evaluating, answers which are based on latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and due marks be awarded to them. In class-X, while evaluating two competency-based questions, please try to understand given answer and even if reply is not from marking scheme but correct competency is enumerated by the candidate, due marks should be awarded.
4	The Marking Scheme carries only suggested value points for the answers.  These are in the nature of Guidelines only and do not constitute the complete answer. The students can have their own expression and if the expression is correct, the due marks should be awarded accordingly.
5	The Head-Examiner must go through the first five answer books evaluated by each evaluator on the first day, to ensure that evaluation has been carried out as per the instructions given in the Marking Scheme. If there is any variation, the same should be zero after deliberation and discussion. The remaining answer books meant for evaluation shall be given only after ensuring that there is no significant variation in the marking of individual evaluators.
6	Evaluators will mark( $$ ) wherever answer is correct. For wrong answer CROSS 'X' be marked. Evaluators will not put right ( $\checkmark$ ) while evaluating which gives an impression that answer is correct and no marks are awarded. This is most common mistake which evaluators are committing.
7	If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totaled up and written in the left-hand margin and encircled. This may be followed strictly.
8	If a question does not have any parts, marks must be awarded in the left-hand margin and encircled. This may also be followed strictly.
9	If a student has attempted an extra question, answer of the question deserving more marks should be retained and the other answer scored out with a note "Extra Question".
10	No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
11	A full scale of marks 80 (example 0 to 80/70/60/50/40/30 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves it.

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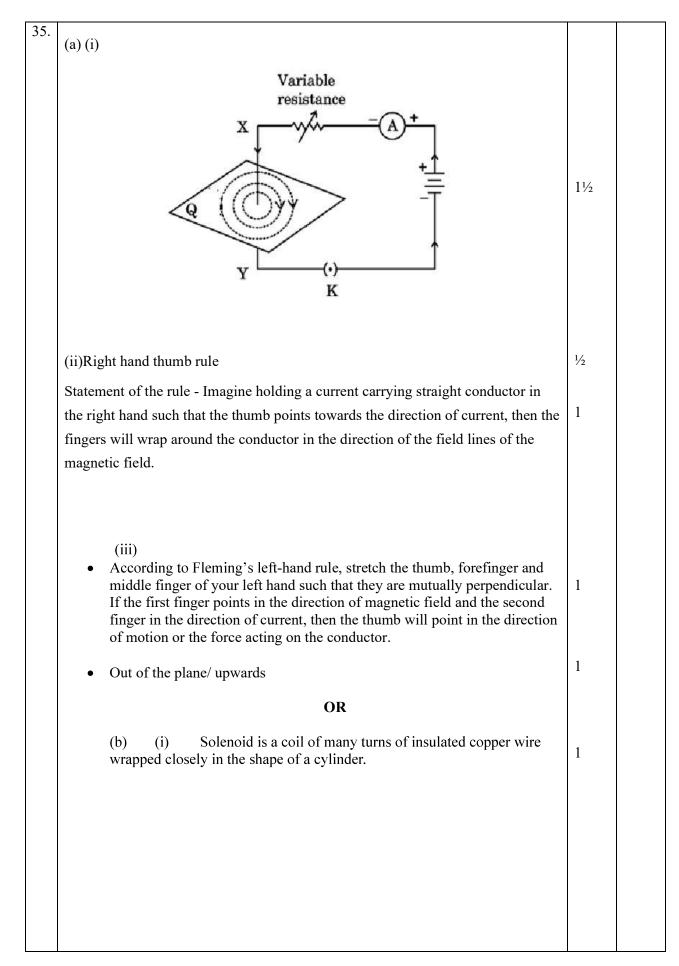
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	SECTION E				
37.	(a) P – pH 0 to 4	1/2			
	Q – pH 12 to 14 (b) (i) By adding sodium hydroxide (or any other base)	$\frac{1}{2}$ $\frac{1}{2}$			
	<ul><li>(b) (i) By adding sodium hydroxide (or any other base)</li><li>(ii) By adding hydrochloric acid (or any other mineral or strong acid)</li></ul>	<sup>7</sup> / <sub>2</sub> <sup>1</sup> / <sub>2</sub>			
	(c) (i) • Hydronium ion (H <sub>3</sub> O <sup>+</sup> /H <sup>+</sup> ) ion concentration increases.	1			
	Colour will change from yellow/orange to red/pink	1			
	OR				
	(c)(ii) •low pH/ between 1 to 3	1			
	• by the use of antacids/milk of magnesia/sodium hydrogen carbonate	1/2			
	Magnesium hydroxide/Mg(OH) <sub>2</sub>	1/2	4		
38.	<ul> <li>(a) Oviduct/ fallopian tube</li> <li>(b) The lining of uterus thickens (it becomes spongy) and is richly supplied with blood to nourish the growing embryo.</li> </ul>	1			
	(c) (i) The uterine lining slowly breaks down and comes out as blood and mucous along with unfertilized egg. Hence, menstruation will occur.	2			
	OR				
	(c) (ii) With the help of special tissue called Placenta which is embedded				
	in uterine wall. It provides oxygen, nutrients from mother to embryo.	2			
			4		
39.	<ul> <li>(a) Dispersion of light</li> <li>(b) Different colours of light bend through different angles with respect to the incident ray as they pass through a prism.</li> <li>(c) (i) Two identical prisms are placed in inverted position with respect to each other as shown. When spectrum produced by prism A is passed through the prism B, a beam of white light emerges from the other side of the prism B.</li> </ul> Screen Screen (award full marks even if only labelled ray diagram is given)	2			
	OR				
	(c)(ii)				

Page **11** of **12** X\_086\_31/2/2

	uniform magnetic field lines  current		
	Diagram	1½	
	Marking (i), (ii) and (iii)	½ ×3	
	(ii) By inserting a piece of magnetic material like soft iron inside the current carrying solenoid.	1	5
36.	(a) (i) Animals (Herbivores) eating grass need a longer small intestine to digest cellulose. Meat is easier to digest, hence meat eating animals (Carnivores) have shorter small intestine.	2	
	(ii) Role of Pancreas – Secrete pancreatic juice which contains trypsin for digesting proteins, lipase for breaking down emulsified fats.	1	
	Role of Bile- Bile emulsifies fats and makes the medium alkaline in the small intestine so that pancreatic enzymes can act.	1	
	(iii) The inner lining of the small intestine has numerous finger-like projections called villi which increase the surface area for absorption of food. The villi are richly supplied with blood vessels which take the absorbed food to each and every cell of the body.	1	
	OR  (b) (i) 'Rings of cartilage' ensures that the air passage does not collapse in absence of air.	1	
	(ii) Ribs are lifted → Diaphragm flattens → Chest cavity become larger → Air is sucked into the lungs (Alveoli) and we breathe in	2	
	(iii) Due to lack of oxygen in our muscle cells (anaerobic respiration), pyruvate is converted into lactic acid, build-up of lactic acid in our muscles causes cramps.	2	5

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#### OR

(b) (i)

	TT	
Saturated hydrocarbons	Unsaturated hydrocarbons	
Compounds which have single covalent bond between all carbon atoms. / Compounds with general formula $C_nH_{2n+2}$	Compounds which have at least one double or triple bond between carbon and carbon atom. / Compounds with general formula C <sub>n</sub> H <sub>2n</sub> and C <sub>n</sub> H <sub>2n-2</sub>	1
Example – Propane  H H H	Example – Propene- CH <sub>2</sub> =CH-CH <sub>3</sub> /  H	1
/ CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	Propyne $H - C \equiv C - C - H$	
(any other)	H (any other)	

(ii)

• Addition of hydrogen in the presence of Ni orPd / Hydrogenation /

$$\frac{\mathbf{H}}{\mathbf{H}} > \mathbf{C} = \mathbf{C} < \frac{\mathbf{H}}{\mathbf{H}} \qquad \frac{\mathbf{H}_2}{\mathbf{N}_1/\mathbf{P}_d} \rightarrow \mathbf{H} - \frac{\mathbf{H}_1}{\mathbf{H}_2} - \mathbf{H}$$

(any other)

• It is used in the hydrogenation of vegetable oil.

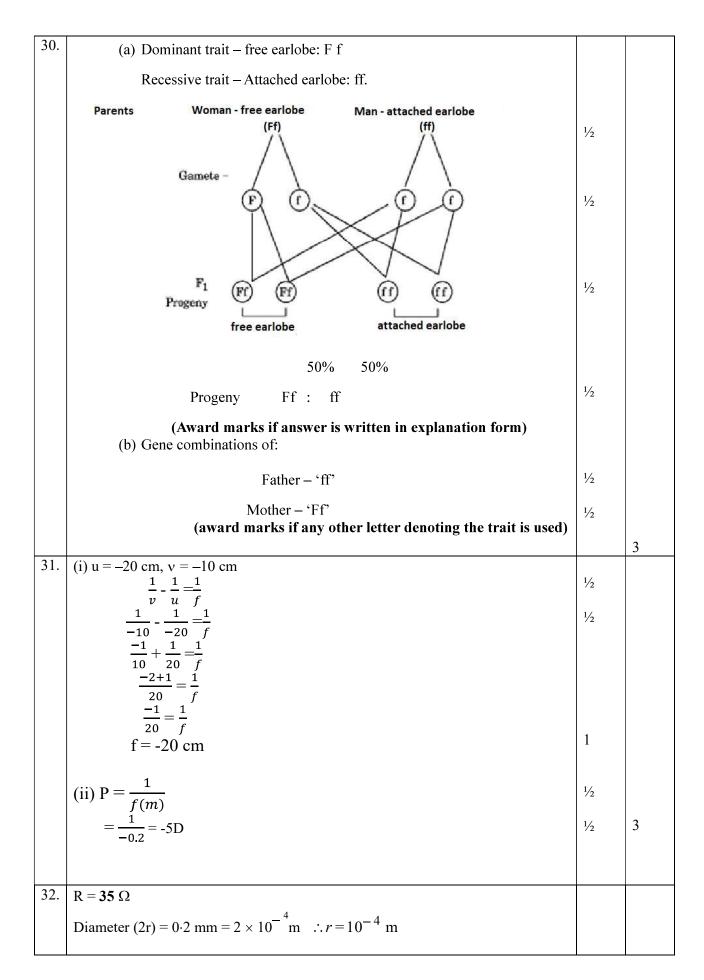
(iii) Butene

1/2

1/2

	Length of the wire = 1 m	1/2	
	$R = \rho \frac{1}{A}$		
	Area of cross section, $A = \pi r^2$		
	Resistivity, $\rho = \frac{RA}{l} = \frac{35 \times \frac{22}{7} \times (10^{-4})^2}{1}$	1/2	
	$=110\times10^{-8}\Omega\mathrm{m}$	1	
	Resistivity of the wire will not change	1/2	3
	as it is a characteristic property of the material which does not depend on the	1/2	
	dimensions of the wire.		
33.	• Ozone (O <sub>3</sub> ) shields the surface of earth from Ultra violet (UV) radiation which are highly damaging to organisms (may cause skin cancer).	1	
	• Ultra violet (UV) radiations split apart some molecular oxygen (O <sub>2</sub> ) into free oxygen (O) atoms. These atoms then combine with molecular oxygen	1	
	to form ozone. /		
	$O_2 \xrightarrow{UV} O + O$		
	$O + O_2 \rightarrow O_3$ (Ozone)		
	Chlorofluorocarbons (CFC)/ freons	1	3
	SECTION D		
34.	(a) (i) X - Ethanoic acid/ Acetic acid	1/2	
	H O		
	H-C-C OH	1	
	/ CH <sub>3</sub> COOH		
	(ii) pH of 'X' will be higher than that of a mineral acid.	1/2	
	(iii) Esterification reaction	1/2	
	$CH_3COOH + CH_3CH_2OH \xrightarrow{Acid} CH_3 -COOCH_2CH_3 + H_2O$ (X)	1	
	(or reaction with any other alcohol)  (iv) $2CH_3COOH + Na_2CO_3 \longrightarrow 2CH_3COONa + CO_2 + H_2O$ (X) Sodium acetate/sodium ethanoate	1 1/2	
	(balancing of equation is not mandatory)		

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	(any other suitable example) (ii) because energy (heat) is released.	1	
	OR		
	<ul> <li>In combination reaction single product (substance) is formed from two or more reactants (substances) whereas in decomposition reaction a single reactant (substance) breaks down to give two or more products (substances). So, the two are opposite.</li> <li>Example of combination reaction</li> </ul>	1	
	$C(s) + O_2(g) \longrightarrow CO_2(g) + Heat$ Carbon Oxygen Carbon dioxide  • Example of decomposition reaction	1	
	$\begin{array}{ccc} \text{CaCO}_3 \text{ (s)} & \xrightarrow{\text{Heat}} \text{CaO(s)} & + & \text{CO}_2 \\ \text{Calcium carbonate} & \text{Calcium Oxide} & \text{Carbon dioxide} \end{array}$	1	
	(any other suitable example)		3
20	(do not deduct marks if physical state not given)	1/ +1/	3
28.	(a) Aluminium (Al) and Iron (Fe)	1/2+1/2	
	(b)		
	• $2Al + 3H_2O(g) \longrightarrow Al_2O_3 + 3H_2$	1	
	• $3\text{Fe} + 4\text{H}_2\text{O(g)} \longrightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$	1	3
29.	(a) The process of detecting the signal or the input and responding to it by an		
	output action, completed quickly. Such a connection is called as reflex arc /A	1	
	pathway followed during reflex action is called reflex arc./		
	Sensory neuron  Receptors = Heat/Pain Receptors in skin  Effector = Muscle in arm		
	<ul><li>(award mark if reflex arc is shown with a labelled diagram or a flowchart)</li><li>Reflex arc is formed in the spinal cord.</li></ul>	1	
	(b) Reflex arcs have evolved in animals because the thinking process of the brain is not fast enough. Brain may take longer time to respond.	1	
			3

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	(ii) Food storage area of the seed/ reserve food material	1/2	
	(iii) Develops into root on germination of seed/future root	1/2	
	(iv) Develops into shoot on germination of seed/future shoot  OR	1/2	
	(b) In a test tube take 10g sugar, add 100 ml of water and a pinch of yeast granules. Keep it in warm place for 1-2 hours.	2	
25.	(a) Concave lens	1	2
23.	OR (b) (i)	1	
	(ii) Principal focus /Focus	1	2
26.	P = 5 kW, V = 200V Current drawn by electrical appliance = $I = \frac{P}{V}$ = $\frac{5000}{200} = 25A$	1/2	
	No, The given electric fuse cannot be used The fuse will melt and appliance stops working.	1/2	2
	SECTION C		
27.	(a) (i) A single reactant (substance) breaks down to give two or more products.	1/2	
	• $CaCO_3(s) \xrightarrow{Heat} CaO(s) + CO_2(g)$	1/2	
	• $2AgCl(s) \xrightarrow{Sunlight} 2Ag(s) + Cl_2(g)$	1/2	
	• $2H_2O(l) \xrightarrow{Electric} 2H_2(g) + O_2(g)$	1/2	

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### SECONDARY SCHOOL EXAMINATION, 2025

#### MARKING SCHEME

CLASS: X []SCIENCE (Subject Code-086)

[ Paper Code: SET 31/2/2 ]

**Maximum Marks: 80** 

	Maximum Marks: 80		
Q. No.	EXPECTED ANSWERS / VALUE POINTS	Marks	Total Marks
	SECTION A	•	
1.	(C) / Sodium	1	1
2.	(B) / When it is heated with iron (III) oxide, molten iron is obtained.	1	1
3.	$(C)/Na_2ZnO_2$	1	1
4.	(C) / Brass and Bronze	1	1
5.	(D) / $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O + Energy$	1	1
6.	(A) / Nitrogen	1	1
7.	(C)/ Ovary and testis both	1	1
8.	(B) /Capillaries	1	1
9.	(C) /As compared to the parent plant, vegetatively propagated plants show more variations.	1	1
10.	(C) / Change in amount of water in cells	1	1
11.	(C) / 9 \Omega	1	1
12.	(A) $/\frac{10}{9}$	1	1
13.	(A) / Cornea	1	1
14.	(B) / Higher than that of its constituent metals.	1	1
15.	(B)/-20  cm	1	1
16.	(C) / DDT, Polyester, Glass	1	1
17.	(A) / Both A and R are true and R is the correct explanation of A	1	1
18.	(C) /A is true, but R is false.	1	1
19.	(A) / Both A and R are true and R is the correct explanation of A.	1	1
20.	(A) /Both A and R are true and R is the correct explanation of A.	1	1
	SECTION B		
21.	(a) $6 \text{ CO}_2 + 12\text{H}_2\text{O} \xrightarrow{\text{Sunlight}} \text{Chlorophyll} \leftarrow \text{C}_6 \text{ H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$	1	
	(b) $2Pb(NO_3)_2 \xrightarrow{\text{Heat}} 2PbO + 4NO_2 + O_2$	1	2
22.	(a) (1) and (4)	1	
	(b) (i) melting point increases with increasing molecular mass.	1/2	
	(ii) Solubility shows regular gradation/ decreases with increase in molecular	1/2	
	mass.		2
23.	(a) Root – Movement: positive geotropism; Stimulus: gravity		
		1/2+ 1/2	
	Root – Movement: negative phototropism; Stimulus: light (b) Shoot – Movement: Negative geotropism; Stimulus: gravity		
		1/2+ 1/2	
	Shoot – Movement: positive phototropism; Stimulus: light	/21 /2	2
24.	(a) (i) Protects the seed	1/2	<u> </u>
	(a) (1) I folicità the secti		

12	Every examiner has to necessarily do evaluation work for full working hours i.e., 8 hours every day and evaluate 20 answer books per day in main subjects and 25 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in question paper.
13	Ensure that you do not make the following common types of errors committed by the Examiner in the past:-  Leaving answer or part thereof unassessed in an answer book.  Giving more marks for an answer than assigned to it.  Wrong totaling of marks awarded on an answer.  Wrong transfer of marks from the inside pages of the answer book to the title page.  Wrong question-wise totaling on the title page.  Wrong totaling of marks of the two columns on the title page.  Wrong grand total.  Marks in words and figures not tallying/not same.  Wrong transfer of marks from the answer book to online award list.  Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.)
14	Half or a part of answer marked correct and the rest as wrong, but no marks awarded.  While evaluating the answer books if the answer is found to be totally incorrect, it should be marked as cross (X) and awarded zero (0)Marks.
15	Any unassessed portion, non-carrying over of marks to the title page, or totaling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously.
16	The Examiners should acquaint themselves with the guidelines given in the "Guidelines for Spot Evaluation" before starting the actual evaluation.
17	Every Examiner shall also ensure that all the answers are evaluated, marks carried over to the title page, correctly totalled and written in figures and words.
18	The candidates are entitled to obtain photocopy of the Answer Book on request on payment of the prescribed processing fee. All Examiners/Additional Head Examiners/Head Examiners are once again reminded that they must ensure that evaluation is carried out strictly as per value points for each answer as given in the Marking Scheme.

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# Marking Scheme Strictly Confidential

#### (For Internal and Restricted use only) Secondary School Examination, 2025 SUBJECT: SCIENCE (Q.P. CODE 31/2/2)

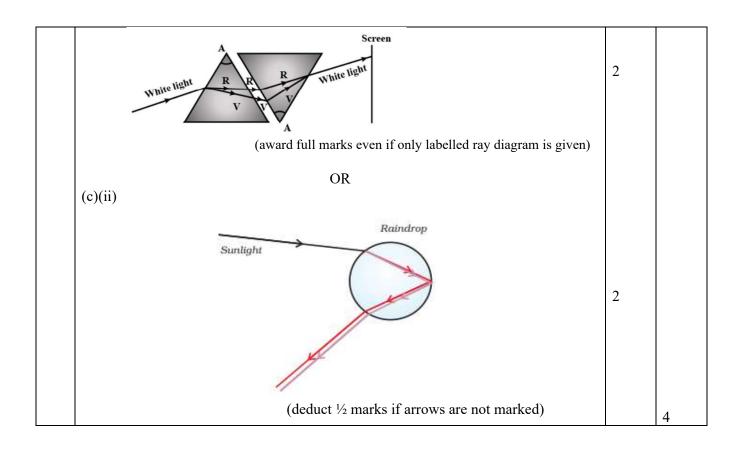
Genera	I Instructions:	-
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- You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.
- "Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its leakage to public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in Newspaper/Website, etc. may invite action under various rules of the Board and IPC."
- Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. However, while evaluating, answers which are based on latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and due marks be awarded to them. In class-X, while evaluating two competency-based questions, please try to understand given answer and even if reply is not from marking scheme but correct competency is enumerated by the candidate, due marks should be awarded.
- The Marking Scheme carries only suggested value points for the answers.

These are in the nature of Guidelines only and do not constitute the complete answer. The students can have their own expression and if the expression is correct, the due marks should be awarded accordingly.

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- If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totaled up and written in the left-hand margin and encircled. This may be followed strictly.
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- No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
- A full scale of marks 80 (example 0 to 80/70/60/50/40/30 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves it.

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	OR		
	(b) (i) Solenoid is a coil of many turns of insulated copper wire wrapped closely in the shape of a cylinder.  magnetic field lines	1	
	uniform magnetic field  current		
	Diagram Marking (i), (ii) and (iii)	1½ ½ ×3	
	(ii) By inserting a piece of magnetic material like soft iron inside the current carrying solenoid.	1	5
37	SECTION E	1/	1
3/	(a) P – pH 0 to 4 Q – pH 12 to 14	1/ <sub>2</sub> 1/ <sub>2</sub>	
	(b) (i) By adding sodium hydroxide (or any other base)	1/2	
	(ii) By adding hydrochloric acid (or any other mineral or strong acid)	1/2	
	(c)	1	
	(i) • Hydronium ion (H <sub>3</sub> O <sup>+</sup> /H <sup>+</sup> ) ion concentration increases.	l	
	Colour will change from yellow/orange to red/pink	1	
	OR		
	(c) (ii) • low pH/ between 1 to 3	1	
	• by the use of antacids/milk of magnesia/sodium hydrogen carbonate	1/2	
	Magnesium hydroxide/Mg(OH)2	1/2	4
38	(a) Oviduct/ fallopian tube	1	
	(b) The lining of uterus thickens (it becomes spongy) and is richly supplied with blood to nourish the growing embryo.	1	
	(c) (i) The uterine lining slowly breaks down and comes out as blood and mucous along with unfertilized egg. Hence, menstruation will occur.  OR	2	
	(c) (ii) With the help of special tissue called Placenta which is embedded in uterine wall. It provides oxygen, nutrients from mother to embryo.	2	
20			4
39	(a) Dispersion of light  (b) Different colours of light hand through different angles with respect to the	1	
	(b) Different colours of light bend through different angles with respect to the incident ray as they pass through a prism.	1	
	(c) (i) Two identical prisms are placed in inverted position with respect to each		
	other as shown. When spectrum produced by prism A is passed through the		
	prism B, a beam of white light emerges from the other side of the prism B.		

Page **10** of **11** X\_086\_31/2/1

	(ii) Role of Pancreas – Secrete pancreatic juice which contains trypsin for digesting proteins, lipase for breaking down emulsified fats.	1	
	Role of Bile- Bile emulsifies fats and makes the medium alkaline in the small		
	intestine so that pancreatic enzymes can act.	1	
	(iii) The inner lining of the small intestine has numerous finger-like projections		
	called villi which increase the surface area for absorption of food. The villi are richly		
	supplied with blood vessels which take the absorbed food to each and every cell of the body.	1	
	OR		
	(b) (i) 'Rings of cartilage' ensures that the air passage does not collapse in absence		
	of air.	1	
	(ii)		
	Ribs are lifted → Diaphragm flattens → Chest cavity become larger → Air is sucked into the lungs (Alveoli) and we breathe in	2	
	(iii) Due to lack of oxygen in our muscle cells (anaerobic respiration), pyruvate is	2	
	converted into lactic acid, build-up of lactic acid in our muscles causes cramps.	_	5
36	(a) (i)	-	J
	(a) (i)		
	Variable		
	resistance		
	x ————————————————————————————————————		
	+		
		11/	
	$\sqrt{9} \left( \left( \left( \right) \right) \right) $	1½	
	1		
	Y (•)		
	K		
	(ii) Right hand thumb rule	1/2	
	Statement of the rule - Imagine holding a current carrying straight conductor in the	1	
	right hand such that the thumb points towards the direction of current, then the fingers will wrap around the conductor in the direction of the field lines of the	1	
	magnetic field.		
	(iii)		
	• According to Fleming's left-hand rule, stretch the thumb, forefinger and		
	middle finger of your left hand such that they are mutually perpendicular. If the first finger points in the direction of magnetic field and the second finger	1	
	in the direction of current, then the thumb will point in the direction of motion	1	
	or the force acting on the conductor.		
		1	
	Out of the plane/ upwards	1	
	<u> </u>		

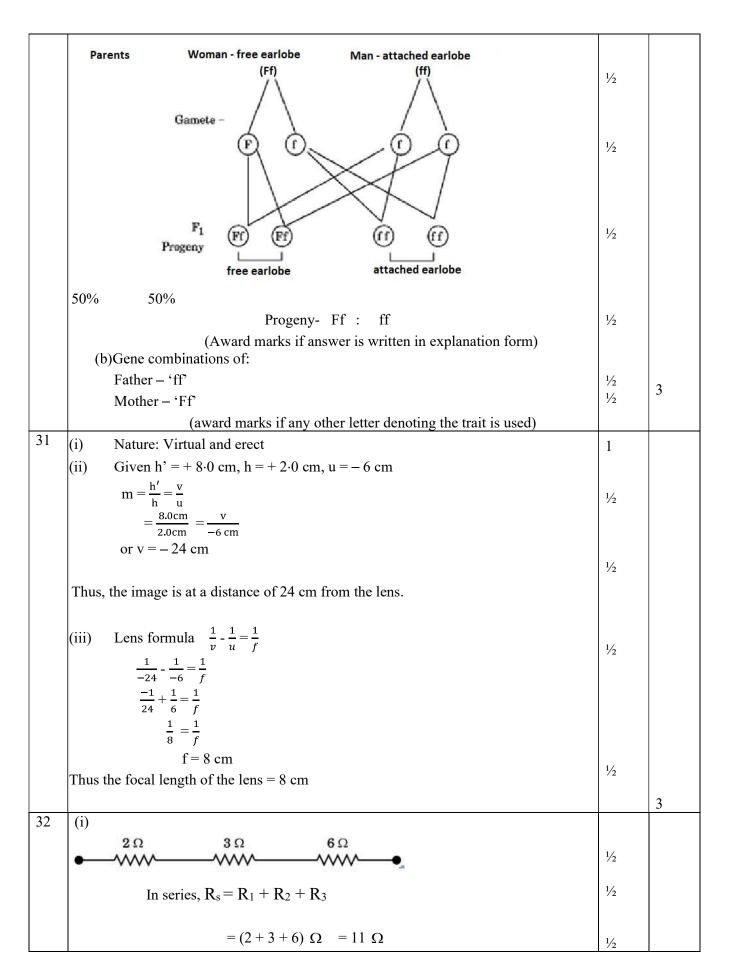
Page **9** of **11** X\_086\_31/2/1

(b) (i)	OR		
Saturated hydrocarbons	Unsaturated hydrocarbons		
Compounds which have single covalent bond between all carbon atoms. / Compounds with general formula $C_nH_{2n+2}$	Compounds which have at least one double or triple bond between carbon and carbon atom. / Compounds with general formula $C_nH_{2n}$ and $C_nH_{2n-2}$	1	
Example: Propane  H H H	Example: Propene- CH <sub>2</sub> =CH-CH <sub>3</sub> /  H	1	
/ CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub> (any other)	Propyne $H - C \equiv C - C - H$ H  (any other)		
	oresence of Ni orPd / Hydrogenation /  H H H-C-C-H H H	1	
It is used in the hydrogenation	(any other) n of vegetable oil.	1	
(iii) Butene		1/2	
H H H H H H H H H H H H H H H H H H H	H H H   I I   C=C-C-H   H	1/2	5
(a)	s need a longer small intestine to digest		

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	(ii)		
	2 Ω		
	$3\Omega$		
	• • • • • • • • • • • • • • • • • • •	1/	
	6 Ω	1/2	
	In parallal 1 - 1 - 1 - 1		
	In parallel, $\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$	1/2	
	$=\frac{1}{2}+\frac{1}{3}+\frac{1}{6}$		
	$=\frac{3+2+1}{6}$		
	$R_p = 1.0 \Omega$	1/2	3
33	Ozono (Os) shields the symfose of couth from Littue violet (LIV) and inti-		
33	• Ozone (O <sub>3</sub> ) shields the surface of earth from Ultra violet (UV) radiation which are highly damaging to organisms (may cause skin cancer).	1	
	• Ultra violet (UV) radiations split apart some molecular oxygen (O <sub>2</sub> ) into free oxygen (O) atoms. These atoms then combine with molecular oxygen to form		
	ozone. /	1	
	$O_2 \xrightarrow{UV} O + O$		
	$O + O_2 \rightarrow O_3$ (Ozone)		
	Chlorofluorocarbons (CFCs)/ freons	1	3
	SECTION D		
34	(a) (i) X- Ethanoic acid/ Acetic acid	1/2	
	H .O		
	H-C-C	1	
	H / CH <sub>3</sub> COOH		
	, 211, 2 2 311		
		17	
	(ii) pH of 'X' will be higher than that of a mineral acid.	1/2	
	(iii) Esterification reaction	1/2	
	$CH_3COOH + CH_3CH_2OH \xrightarrow{Acid} CH_3 - COOCH_2CH_3 + H_2O$	1	
	(X)		
	(or reaction with any other alcohol)	1	
	(iv) $2CH_3COOH + Na_2CO_3 \longrightarrow 2CH_3COONa + CO_2 + H_2O$ (X) Sodium acetate/sodium ethanoate	1/2	
	(balancing of equation is not mandatory)		

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	(ii) because energy (heat) is released.	1	
	OR (b)		
	<ul> <li>In combination reaction single product (substance) is formed from two or more reactants (substances) whereas in decomposition reaction a single reactant (substance) breaks down to give two or more products (substances). So, the two are opposite.</li> <li>Example of combination reaction</li> </ul>	1	
	<ul> <li>C(s) + O<sub>2</sub> (g)</li></ul>	1	
	CaCO <sub>3</sub> (s) $\xrightarrow{\text{Heat}}$ CaO(s) + CO <sub>2</sub> (g)  Calcium carbonate Calcium Oxide Carbon dioxide	1	
	(any other suitable example) (Do not deduct marks if physical state not given)		3
28	Na O 2, 8, 1 2, 6		
	(i)		
	Na (ii)	1/2	
	O:	1/2	
	• Formation of sodium oxide Na <sub>2</sub> O		
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1	
	Anion: O <sup>2-</sup>	1/2	
20	Cation: Na	1/2	3
29	<ul> <li>(a) Hormones are chemical messengers (substances) which regulate body functions / Hormones are the biochemical substances produced in one part of the body and move to the target organ or tissue to regulate body function.</li> <li>(b) Example: If the sugar level in blood rises, it is detected by cells of pancreas which respond to produce more insulin to lower blood sugar level. As the blood sugar level falls, it is detected by the cells of pancreas and insulin secretion is reduced.</li> </ul>	2	
20	(or any other example)		3
30	(a) Dominant trait – free earlobe: F f Recessive trait – Attached earlobe: ff.		

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	(iii) Develops into root on germination of seed/future root	1/ <sub>2</sub> 1/ <sub>2</sub>	
	(iv) Develops into shoot on germination of seed/future shoot  OR	, 2	
	(b) In a test tube take 10g sugar, add 100 ml of water and a pinch of yeast granules. Keep it in warm place for 1-2 hours.	2	2
25	(a) Concave lens	1	
	F	1	
	OR		
	(b) (i)		
	Λ		
	F <sub>1</sub> F <sub>2</sub>	1	
	V		
	(ii) Principal focus /Focus	1	2
26	P = 750 W, V = 220 V		
	• Current drawn by kettle, $I = \frac{P}{V}$		
	= 750 W/220 V		
	= 3.4  A	1/2	
	No, this kettle cannot be used.	1/2	
	• The current drawn by the kettle is more than the fuse rating (3A). So, the fuse will melt and break the circuit.	1	2
	SECTION C		
27	(a) (i) A single reactant (substance) breaks down to give two or more products.	1/2	
	• $CaCO_3(s) \xrightarrow{Heat} CaO(s) + CO_2(g)$	1/2	
	• $2AgCl(s) \xrightarrow{Sunlight} 2Ag(s) + Cl_2(g)$	1/2	
	• $2H_2O(l) \xrightarrow{Electric} 2H_2(g) + O_2(g)$	1/2	
	(any other suitable example)		

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# SECONDARY SCHOOL EXAMINATION, 2025 MARKING SCHEME

#### **CLASS: X SCIENCE (Subject Code-086)**

[ Paper Code: SET 31/2/1 ]

Maximum Marks: 80

	Maximu	n Marks: 80	
Q. No.	EXPECTED ANSWERS / VALUE POINTS	Marks	Total Marks
	SECTION A	,	
1	$(D) / CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O + Energy$	1	1
2	(C) / Sodium	1	1
3	(C)/ 7·0 to 7·8	1	1
4	(B) / When it is heated with iron (III) oxide, molten iron is obtained.	1	1
5	(C) / Brass and Bronze	1	1
6	(D) /Amount of water in guard cells	1	1
7	(B) /Capillaries	1	1
8	(C) / Change in amount of water in cells	1	1
9	· / •	1	1
	(B) / Vegetative buds produced in the notches of the leaf		
10	(C)/ Ovary and testis both	1	1
11	$(A) / \frac{10}{2}$	1	1
	9	1	1
12	(B) / –20 cm	1	1
13	(D) /1 and 6	1	1
14	(B)/ 110 W	1	1
15	$(C)/9\Omega$	1	1
16	(C) / DDT, Polyester, Glass	1	1
17	(B) /Both A and R are true, but R is <i>not</i> the correct explanation of A.	1	1
18	(A) / Both A and R are true and R is the correct explanation of A.	1	1
19	(C) /A is true, but R is false.	1	1
20	(A) /Both A and R are true and R is the correct explanation of A.	1	1
	SECTION B	•	ı
21	(a) Displacement reaction	1/2	
	$2AgNO_3 + Cu \longrightarrow 2Ag + Cu(NO_3)_2$	1/2	
	(b) Electrolytic refining		
	(b) Electrolytic remaining	1	
			2
22	(a) (1) and (4)	1	
	(b) (i) melting point increases with increasing molecular mass.	1/2	
	(ii) Solubility shows regular gradation/ decreases with increase in	1/2	
	molecular mass.	/2	2
23	• Pons,	1/2	
	Medulla,	1/2	
	Cerebellum	1/2	
	Medulla	1/2	2
24		1/2	
<b>4</b>	(a) (i) Protects the seed	1/2	
	(ii) Food storage area of the seed/ reserve food material	/2	

12 Every examiner has to necessarily do evaluation work for full working hours i.e., 8 hours every day and evaluate 20 answer books per day in main subjects and 25 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in question paper. Ensure that you do not make the following common types of errors committed by the 13 Examiner in the past:-Leaving answer or part thereof unassessed in an answer book. Giving more marks for an answer than assigned to it. Wrong totaling of marks awarded on an answer. Wrong transfer of marks from the inside pages of the answer book to the title page. Wrong question-wise totaling on the title page. Wrong totaling of marks of the two columns on the title page. Wrong grand total. Marks in words and figures not tallying/not same. Wrong transfer of marks from the answer book to online award list. Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.) Half or a part of answer marked correct and the rest as wrong, but no marks awarded. While evaluating the answer books if the answer is found to be totally incorrect, it should 14 be marked as cross (X) and awarded zero (0)Marks. Any unassessed portion, non-carrying over of marks to the title page, or totaling error 15 detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously. 16 The Examiners should acquaint themselves with the guidelines given in the "Guidelines **for Spot Evaluation**" before starting the actual evaluation. Every Examiner shall also ensure that all the answers are evaluated, marks carried over to 17 the title page, correctly totalled and written in figures and words. The candidates are entitled to obtain photocopy of the Answer Book on request on 18 payment of the prescribed processing fee. All Examiners/Additional Head Examiners/Head Examiners are once again reminded that they must ensure that evaluation is carried out strictly as per value points for each answer as given in the Marking Scheme.

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### Marking Scheme Strictly Confidential

(For Internal and Restricted use only) Secondary School Examination, 2025

SUBJECT : SCIENCE (Q.P. CODE 31/2/1)

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Gen	eral Instructions: -		
1	You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.		
2	"Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its leakage to public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in Newspaper/Website, etc. may invite action under various rules of the Board and IPC."		
3	Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. However, while evaluating, answers which are based on latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and due marks be awarded to them. In class-X, while evaluating two competency-based questions, please try to understand given answer and even if reply is not from marking scheme but correct competency is enumerated by the candidate, due marks should be awarded.		
4	The Marking Scheme carries only suggested value points for the answers.  These are in the nature of Guidelines only and do not constitute the complete answer. The students can have their own expression and if the expression is correct, the due marks should be awarded accordingly.		
5	The Head-Examiner must go through the first five answer books evaluated by each evaluator on the first day, to ensure that evaluation has been carried out as per the instructions given in the Marking Scheme. If there is any variation, the same should be zero after deliberation and discussion. The remaining answer books meant for evaluation shall be given only after ensuring that there is no significant variation in the marking of individual evaluators.		
6	Evaluators will mark( √) wherever answer is correct. For wrong answer CROSS 'X' be marked. Evaluators will not put right (✓) while evaluating which gives an impression that answer is correct and no marks are awarded. This is most common mistake which evaluators are committing.		
7	If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totaled up and written in the left-hand margin and encircled. This may be followed strictly.		
8	If a question does not have any parts, marks must be awarded in the left-hand margin and encircled. This may also be followed strictly.		
9	If a student has attempted an extra question, answer of the question deserving more marks should be retained and the other answer scored out with a note "Extra Question".		
10	No marks to be deducted for the cumulative effect of an error. It should be penalized only once.		

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A full scale of marks 80 (example 0 to 80/70/60/50/40/30 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves

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