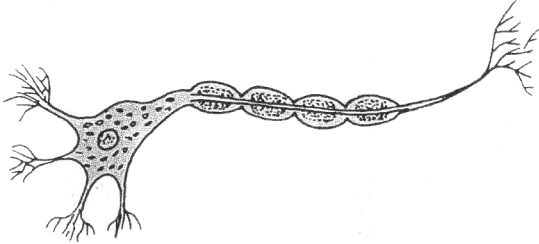
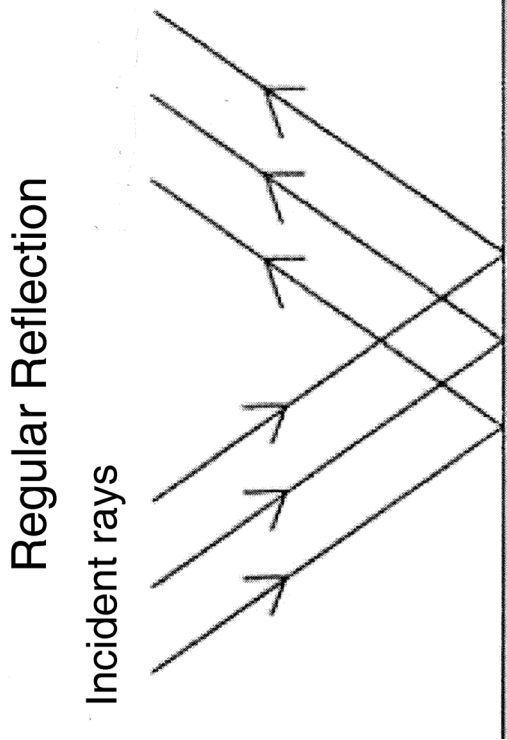
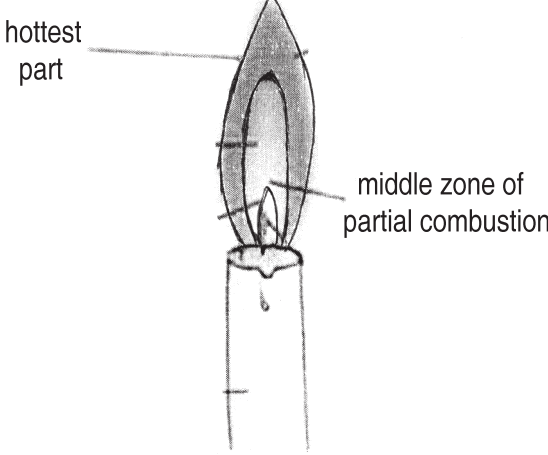


ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ	ಉತ್ತರದ ವಿವರ	ಅಂಕ ವಿಂಗಡಣೆ
I. 1.	C) Air in the balloon exerts more pressure on the water surface	1
2.	A) Lower amplitude	1
3.	C) Transfers higher magnitude electric charges to the ground	1
4.	B) Reflected light rays from the object converge at blind spot	1
5.	A) Sprinkling powder on the carrom board	1
6.	C) Poor conductor of electricity	1
7.	D) similar to silk	1
8.	A) Sodium and Phosphorous	1
9.	C) Coal tar	1
10.	B) Caustic soda and milk	1
11.	A) Spraying 2, 4 - D to the field	1
12.	D) Nuclear membrane	1
13.	C) Protoplasm	1
14.	B) No additional layer surrounding the cell membrane	1
15.	A) Hydra	1
16.	D) Provide insufficient nutrients	1
II. 17.	Metal holders of umbrella may act as a lightning conductor and can give electric shock	1
18.	Process of depositing a layer of any desired metal on another metal by means of electricity.	1
19.		1
20.	One X-chromosome	1

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III. 21.	<ul style="list-style-type: none"> • Wave form "B". • Produced sound is loud as it has large amplitude <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> i) Source 'S' cannot be heard by human ear. ii) If the frequency of source 'Q' is doubled, its pitch is also doubled 	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
22.	<ul style="list-style-type: none"> • Halley's Comet appears periodically • Last seen in 1986 and again appears after 76 years in 2062 that is after 38 years from 2024 	<p>1</p> <p>1</p>
23.	<ul style="list-style-type: none"> i) Paraffin wax ii) Bitumen <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> i) Switch off engine at place where you have to wait ii) Regular maintenance of vehicles. iii) Drive at moderate speed as far or possible (Any two) 	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
24.	<ul style="list-style-type: none"> • The supply of water to crops at regular intervals. • Sprinkler irrigation • Drip irrigation <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Kharif crops sown in the rainy season • Rabi crops grown in the winter season 	<p>1</p> <p>$\frac{1}{2} \times \frac{1}{2} = 1$</p> <p>1</p> <p>1</p>
25.	<ul style="list-style-type: none"> • Small animals are more in danger of becoming extinct than the bigger animals • Maintain ecological balance by becoming the part of food chain and food web 	<p>1</p> <p>1</p>
26.	<ul style="list-style-type: none"> • Water suitable for drinking. • Filtration (candle type filter) • Boiling • Chlorination 	<p>$\frac{1}{2} \times 4 = 2$</p>

ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ	ಉತ್ತರದ ವಿವರ	ಅಂಕ ವಿಂಗಡಣೆ
IV. 27.	Answer the following questions 	Draw 2 marks Identify 1 marks
28.	a) A push or a pull on an object is called force. b) i) Object moves forward in the direction of force ii) Two forces cancel each other. Object remains at same position. OR 1) Magnetic force : Eg : Like poles of two magnets repel each other and unlike poles attract. 2) Electro static force : Eg : A straw rubbed with paper attract another straw. 3) Gravitational force : Eg : Water begins to flow towards ground when tap is open. (Other appropriate examples can be considered)	1 1 1 1 1 1

ಕ್ರ. ಸಂಖ್ಯೆ	ಉತ್ತರದ ವಿವರ	ಅಂಕ ವಿಂಗಡಣೆ
29.	 <p>hottest part</p> <p>middle zone of partial combustion</p>	Draw 2 label $\frac{1}{2} + \frac{1}{2}$
V. 30.	<p>Answer the following questions. 4 marks</p> <p>a) i) Hydrogen gas ii) Iron sulphate and copper</p> <p>b) i) When a blue litmus paper is dipped in acidic solution, it turns red.</p> <p>OR</p> <p>When a red litmus paper is dipped in acidic solution, it doesn't change color</p> <p>ii) When a burning match stick is brought near hydrogen gas, it produces 'POP' sound.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <hr/> <p>1+1+1+1 =4</p>
VI. 31.	<p>Answer the following : (5×1=5)</p> <p>a) i) Salting/Freezing ii) Pasteurization iii) Adding sugar/sodium benzoate/sodium metabisulphate iv) Adding salt/vinegar</p> <p>b) i) To improve immune system and to protect them against several diseases. ii) To prevent spread of germs present in droplets of moisture that may cause diseases. iii) To prevent spread of diseases caused by mosquitoes.</p>	<p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <hr/> <p>2</p> <p>1</p> <p>1</p> <p>1</p> <hr/> <p>2+1+1+1 =5</p>