

**BCM SCHOOL**  
**BASANT AVENUE, DUGRI ROAD, LUDHIANA**  
**Class VIII SCIENCE**  
**Assignment**

**General Instructions:**

1. Q. 1 to 4 are multiple choice type questions carries 1 mark each.
2. Q.5 to 6 are Assertion- Reason type questions carries 1 mark each.
3. Q.7 to 8 is very short answer type question carries 2 marks.
4. Q. 9 is short answer type question carries 3 marks.
5. Q. 10 is long answer type questions carries 5 marks.
6. Q. 11 is Case Study based question.

**Q1.** Which of the following statements is correct about the image formed by a plane mirror?

- A. It is real and inverted
- B. It is virtual and laterally inverted
- C. It is real and laterally inverted
- D. It is virtual and enlarged

**Q2.** The pitch of a sound depends on:

- A. Amplitude of vibration
- B. Speed of sound
- C. Frequency of vibration
- D. Medium of propagation

**Q3.** Which zone of a candle flame is the hottest?

- A. Innermost dark zone
- B. Middle luminous zone
- C. Outermost non-luminous zone
- D. Blue zone at the base

**Q4.** Which of the following is an example of asexual reproduction?

- A. Formation of zygote
- B. Fertilisation
- C. Budding in hydra
- D. Fusion of gametes

**Q5.** Assertion (A): During adolescence, boys and girls experience rapid increase in height.

Reason (R): Growth hormone released by the pituitary gland becomes more active during adolescence.

- A. Both A and R are true, and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true, but R is false
- D. A is false, but R is true

**Q6.** Assertion (A): All microorganisms are harmful to human beings.

	<p><b>Reason (R):</b> Some microorganisms are used in the preparation of curd and bread.</p> <p><b>A.</b> Both A and R are true, and R is the correct explanation of A  <b>B.</b> Both A and R are true, but R is not the correct explanation of A  <b>C.</b> A is true, but R is false  <b>D.</b> A is false, but R is true</p> <p><b>Q7.</b> Name the process in which a chemical change occurs due to the passage of electric current.  State one observable change that shows a chemical reaction has taken place.</p> <p><b>Q8.</b> What is an electrolyte? Give two examples of conducting liquids.  Explain the process of electroplating with the help of a labelled diagram.  Why is electroplating done? Write one advantage of electroplating.</p> <p><b>Q9.</b> Draw a ray diagram to show the formation of the image of an object placed in front of a plane mirror.</p> <p><b>Q10</b> Describe the process of fertilisation in human beings.  Your answer should include:</p> <ol style="list-style-type: none"> <li>1. Meaning of fertilisation</li> <li>2. Formation of zygote</li> <li>3. Development of embryo</li> <li>4. Role of uterus</li> <li>5. Difference between internal and external fertilisation (any one point)</li> </ol> <p><b>Q11</b> Rohan and his friends were playing near a hill. Rohan shouted loudly and after a few seconds, he heard his own voice again. His friend Meena said that this happens because of reflection of sound. Later, their teacher explained that sound needs a medium to travel and cannot travel in vacuum.</p> <ol style="list-style-type: none"> <li>1. What is the phenomenon of hearing your own voice again after shouting near a hill called? (1 mark)</li> <li>2. Why was Rohan able to hear his voice again? (1 mark)</li> <li>3. State the minimum distance required between the source of sound and the reflecting surface to hear a clear echo. (1 mark)</li> <li>4. Why can sound not travel in space? (1 mark)</li> </ol>	
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