



# UNICUS OLYMPIADS

## Sample Paper (2020-21)

**Class 9**

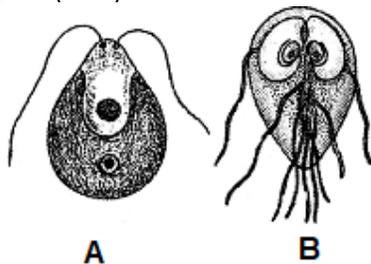
**Unicus Science Olympiad**



<b>Section – Class*</b> <small>*Syllabus covered</small>	<b>Total Questions</b>	<b>Marks per Questions</b>	<b>Total Questions</b>
Classic Section – Class 8	28	1	28
Classic Section – Class 7	12	1	12
Scholar Section – Class 8	7	2	14
Scholar Section – Class 7	3	2	6
<b>Grand Total</b>	<b>50</b>		<b>60</b>



4.



Consider the following statements regarding the organisms shown above and answer the question that follows:

1. Organism A prepare their own food by photosynthesis.
2. Organism B depend upon other organisms to obtain food.
3. Organism B reproduces by binary fission.
4. Organism A reproduces by both sexual and asexual methods.

Which of the above statements is/are correct?

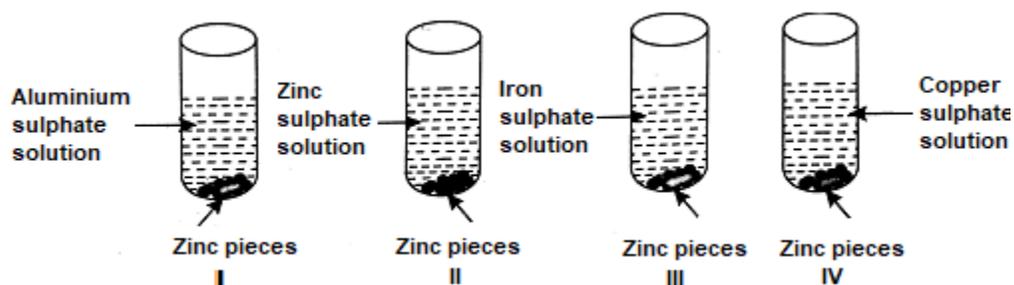
- a) Only 1  
b) Only 2  
c) Only 4  
d) 1, 2, 3 and 4

**Correct Answer: d**

*1 Mark*

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5. Akash placed zinc pieces in each of the four test tubes containing different salt solutions as shown below:



In which of the above cases, a colour change will be observed in the solutions?

- a) I and II  
b) II and III  
c) III and IV  
d) I, II and IV

**Correct Answer: c**

*1 Mark*

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6. Read the following statements and choose the correct option:

**Statement 1:** Mercury is very hot during the day and becomes freezing cold during night.

**Statement 2:** Mercury is very close to sun. It does not have any atmosphere.

- a) Statement 1 is correct but statement 2 is incorrect.
- b) Statement 2 is correct but statement 1 is incorrect.
- c) Both the statements are correct and statement 2 is the correct explanation of statement.
- d) Both the statements are correct but statement 2 is not the correct explanation of statement.

**Correct Answer: c**

*1 Mark*

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7. Which of the following is/are the adaptation(s) shown by penguins to survive in extreme cold condition?

- 1. They live in groups and get huddled together to keep themselves warm.
- 2. They possess short, thick and waterproof feathers.
- 3. They have streamlined body, paddle-like webbed feet and wings shaped like flippers.
- 4. They have white, dense and fine fur that traps air to keep them warm.

- a) Only 1
- b) Only 2
- c) Both 2 and 4
- d) 1, 2 and 3

**Correct Answer: d**

*1 Mark*

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8. **Change A:** Anaerobic bacteria digest animal waste and produce biogas.  
**Change B:** The biogas is then burnt as fuel.

The following statements pertain to the above changes. Choose the correct one:

- a) A is a chemical change whereas B is a physical change.
- b) A is a physical change whereas B is a chemical change.
- c) Both A and B are physical changes.
- d) Both A and B are chemical changes.

**Correct Answer: d**

*1 Mark*

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