

Mindbenz Olympiad of Science (MOS)

Sample Paper

Class - 2

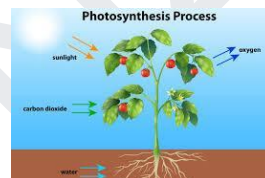
Maximum Marks: 40

Time Allowed – 45 Minutes

Section: A Concept Check (10 Questions × 1 mark = 10 marks)

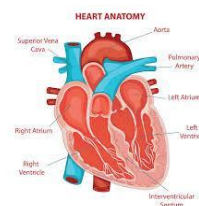
1. Which process allows plants to release oxygen and absorb carbon dioxide?

- (a) Photosynthesis
- (b) Germination
- (c) Pollination
- (d) Transpiration



2. Which organ is mainly responsible for pumping blood in our body?

- (a) Brain
- (b) Lungs
- (c) Heart
- (d) Stomach



3. Which food group is the main source of energy?

- (a) Vitamins
- (b) Carbohydrates
- (c) Proteins
- (d) Minerals

4. What happens to water when it freezes?

- (a) It becomes steam
- (b) It becomes ice
- (c) It becomes salt
- (d) It evaporates



5. Assertion (A): Playing helps in the growth of our muscles.

Reason (R): Work does not require any physical activity.

- (a) Both A and R are true, and R explains A
- (b) Both A and R are true, but R does not explain A
- (c) A is true, R is false
- (d) A is false, R is true

6. What should you do if you get a small cut?

- (a) Ignore it
- (b) Clean it and cover with a bandage
- (c) Put dirt on it
- (d) Rub salt on it

7. Which of these helps us to travel fast on water?

- (a) Car
- (b) Airplane
- (c) Boat
- (d) Bicycle



8. Who is known as the “Father of the Nation” in India?

- (a) Jawaharlal Nehru
- (b) Mahatma Gandhi
- (c) Bhagat Singh
- (d) Subhas Chandra Bose

9. Assertion (A): The national animal of India is the tiger.

Reason (R): Tigers are found only in India.

- (a) Both A and R are true, and R explains A
- (b) Both A and R are true, but R does not explain A
- (c) A is true, R is false
- (d) A is false, R is true

10. Which material is best for keeping houses cool in summer?

- (a) Metal
- (b) Straw
- (c) Glass
- (d) Plastic

Section: B Application Zone (10 Questions × 1 mark = 10 marks)

11. Why do some animals live in groups?

- (a) To find food easily and protect each other.
- (b) To sleep together only.
- (c) To hide from humans.
- (d) To look more colorful.



12. Assertion (A): Plants need sunlight to grow.

Reason (R): Sunlight helps plants make their own food through photosynthesis.

- (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.

13. What causes rain?

- (a) Water vapor cools and condenses to form clouds which then fall as rain.
- (b) The sun heats the ground.
- (c) Wind blows the clouds away.
- (d) Plants release water.



14. Why is play important for children?

- (a) It helps in physical, social, and mental development.
- (b) It wastes time.
- (c) It only entertains.
- (d) It makes children tired.

15. If a person feels tired quickly, which nutrient might they be missing in their diet?

- (a) Vitamins
- (b) Protein
- (c) Iron
- (d) Fats

16. What should you do if you see someone getting burned?

- (a) Pour cold water on the burn immediately.
- (b) Rub mud on the burn.
- (c) Ignore it.
- (d) Put ice directly on the burn.

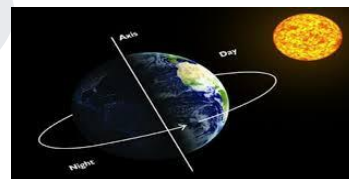
17. If soil has too much sand, what problem might plants face?

- (a) Roots get enough water.
- (b) Water drains too quickly and plants may dry out.
- (c) Plants grow faster.
- (d) Soil becomes very fertile.



18. Why does the Earth have day and night?

- (a) Because Earth moves around the Sun in one day.
- (b) Because Earth rotates on its own axis.
- (c) Because the Moon blocks the sun.
- (d) Because the Sun moves around the Earth.



19. Why are metals often used to make tools and machines?

- (a) They are soft and easy to break.
- (b) They are strong and can be shaped easily.
- (c) They dissolve in water.
- (d) They are light and transparent.

20. Which invention helped people travel faster than walking?

- (a) Bicycle
- (b) Airplane
- (c) Boat
- (d) Wheel

Section: C: Higher Order Thinking (10 Questions × 2 marks = 20 marks)

21. You notice some plants in your garden are growing tall but their leaves are yellow. What could be a likely reason?

- (a) They are getting too much water but not enough sunlight.
- (b) They are getting sunlight but not enough nutrients from soil.
- (c) They are healthy and growing normally.
- (d) They are in a cold place.

22. How does learning about different cultures in India help build unity?

- (a) It helps us appreciate diversity and respect differences.
- (b) It makes people fight.
- (c) It has no effect on unity.
- (d) It divides people.

23. If you wanted to make a container that does not break when dropped, which material would you choose?

- (a) Glass
- (b) Plastic
- (c) Paper
- (d) Clay



24. If plants are not growing well in soil that is too sandy, what could a gardener do to improve growth?

- (a) Add clay and organic matter to retain moisture.
- (b) Remove all sand and add only stones.
- (c) Water less frequently.
- (d) Keep the soil dry.

25. If you see a friend choking and cannot speak, what should you do first?

- (a) Give them water to drink.
- (b) Encourage them to cough and seek adult help immediately.
- (c) Ignore them.
- (d) Make them lie down.

26. If you have a choice between playing and doing homework, how can you manage both effectively?

- (a) Do homework first, then play as a reward.
- (b) Play first and ignore homework.
- (c) Skip both.
- (d) Ask someone else to do homework.



27. A family celebrates a festival differently every year. What can you say about the role of traditions in families?

- (a) Traditions help keep families connected and teach values.
- (b) Traditions confuse family members.
- (c) Traditions are not important.
- (d) Traditions should be ignored.

28. You observe that after a cloudy and windy day, the temperature suddenly drops at night. Why does this happen?

- (a) Clouds keep heat in, so without clouds heat escapes fast.
- (b) Wind cools the earth by blowing warm air away.
- (c) Clouds make the temperature drop directly.
- (d) The Sun stops shining at night.

29. If people start building houses with glass walls in a very hot place, what problems might they face?

- (a) The house will be very cold inside.
- (b) The house may become too hot and uncomfortable.
- (c) The house will be invisible.
- (d) The house will stay dry during rain.

30. A person eats lots of sugary snacks but few vegetables. What might happen to their health over time?

- (a) They will have more energy and be healthier.
- (b) They may develop tooth decay and miss important nutrients.
- (c) They will not feel thirsty.
- (d) They will grow taller immediately.

ANSWER KEY

- 1. (a)
 - 2. (c)
 - 3. (b)
 - 4. (b)
 - 5. (c)
 - 6. (b)
 - 7. (c)
 - 8. (b)
 - 9. (c)
 - 10. (b)
 - 11. (a)
 - 12. (a)
 - 13. (a)
 - 14. (a)
 - 15. (c)
 - 16. (a)
 - 17. (b)
 - 18. (b)
 - 19. (b)
 - 20. (d)
 - 21. (b)
 - 22. (a)
 - 23. (b)
 - 24. (a)
 - 25. (b)
 - 26. (a)
 - 27. (a)
 - 28. (a)
 - 29. (b)
 - 30. (b)
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