



# Global Science Olympiad

## CLASS 7<sup>th</sup> SYLLABUS & SAMPLE QUESTIONS

Nutrition in Plants and Animals, Animal Fibers, Heat and Light, Acid, Base & Salt, Chemical Reactions, Adaptation of Organisms, Respiration, Transportation and Reproduction in Plants & Animals, Motion and Time, Electricity, Winds, Storms and Cyclones, Natural Resources( Soil, Water and Forest), General and Applied Science.

*The Actual Question Paper Contains 70 Questions. The Duration of the Test Paper is 60 Minutes.*

1. Water moves from root towards the upward direction in plants. Which one of the following can be responsible for this movement?

- (A) Transpiration
- (B) Photosynthesis
- (C) Oxygen release from plant
- (D) Presence of chlorophyll
- (E) None of these



2. What do you mean by aestivation?

- (A) The process of heating of the earth
- (B) The process of sleep to cope up the cold weather
- (C) The process of going to summer sleep to cope up the harsh climate
- (D) All of these
- (E) None of these

3. There is an ecosystem. An invasive plant is introduced in this ecosystem. Which of the following will surely occur in this ecosystem?

- (A) The invasive plants grow rapidly and native plants begin to die.
- (B) Native plants may begin to grow rapidly.
- (C) Herbivores grow rapidly.
- (D) Native plants may get extra support
- (E) None of these

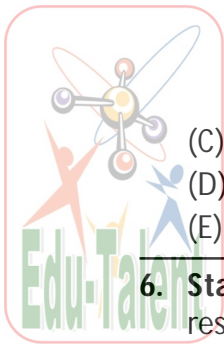
4. Given below a list of methods of reproduction. Categorized them as asexual and sexual reproduction.

**Budding, spore formation, fertilization, pollination, fragmentation, vegetative reproduction**

- (A) **Asexual:** pollination, budding, spore formation, fragmentation  
**Sexual:** Fertilization, vegetative reproduction
- (B) **Asexual:** pollination, budding, fragmentation  
**Sexual:** Fertilization, vegetative reproduction, spore formation
- (C) **Asexual:** budding, spore formation, fragmentation, vegetative reproduction  
**Sexual:** Fertilization, pollination
- (D) All of these
- (E) None of these

5. Match the following:

- |                         |                                     |
|-------------------------|-------------------------------------|
| (1) Biodegradable waste | (A) Soil conservation               |
| (2) Soil                | (B) Pollutes the surroundings       |
| (3) Disposal of waste   | (C) decomposition by microorganisms |
| (4) Forests             | (D) Plantation                      |
- (A) 1-D, 2-A, 3-B, 4-C  
(B) 1-C, 2-A, 3-B, 4-D



- (C) 1-C, 2-D, 3-B, 4-A
- (D) All of these
- (E) None of these

6. **Statement A:** The higher the electrical resistance of a material, the greater is the heat produced.

**Statement B:** The higher the electrical resistance of a material, the lower is the heat produced.

- (A) Statement (A) is true
- (B) Statement (B) is true
- (C) Both statement (A) and (B) are true
- (D) Both statement (A) and (B) are false
- (E) Both statement (A) and (B) are partly true

8. **While conducting an experiment in the laboratory you found that when you pour a substance on blue litmus paper it turns into red. What kind of substance it is?**

- (A) Base
- (B) Acid
- (C) Salt
- (D) All of these
- (E) None of these

7. **In the following table, few activities are given:**

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1.	Melting of ice
2.	Decomposition of leaves
3.	Burning of wood
4.	Evaporation of water
5.	Digestion of food
6.	Spoiling of food
7.	Painting of wooden box

**Which of the preceding activities involve chemical change?**

- (A) Activities 1,2,3,5
- (B) Activities 2,3,4,5

- (C) Activities 2,3,4,6
- (D) Activities 2,3,5,6
- (E) None of these

9. **Consider the following two statements:**

**Statement A:** When radiant energy falls on an object, some of the energy is absorbed and some is reflected by the object.

**Statement B:** Objects that are shiny and smooth are better absorbers.

**Which of the following is correct with respect to the above statements?**

- (A) Statement A is True.
- (B) Statement B is True.
- (C) Both, Statement A and B are True.
- (D) Both, Statement A and B are False.
- (E) Both, Statement A and B are partly True

10. **While performing an experiment in laboratory that involves heating of mixture of sulphuric acid and water, a student gets acid burns over his face and hands. Ignoring which of the following laboratory safety measures are responsible for this laboratory accident?**

1. He was holding the test tube in which mixture was heated tilted towards him.
2. He poured water to sulphuric acid in test tube.
3. He poured sulphuric acid to water in test tube.
4. He was holding the test tube in which mixture was heated tilted towards a ventilated area.
5. He was not wearing lab apron.
6. He did not study the procedure to perform the experiment thoroughly.

- (A) 1,2,6
- (B) 1,3,4
- (C) 1,3,6
- (D) 1, 3,5
- (E) None of these



11. **Smith went to the bus stop with an umbrella on a sunny day. He regretted that he would not have watched the news on the television.**

**Which one of the following inferences can be drawn from the above scenario?**

- (A) Smith does not like watching news on television.
- (B) Smith always takes umbrella with him whenever he goes out.
- (C) Smith watches weather forecast news that predicts rain.
- (D) Smith always watches news before going out.
- (E) None of these

12. **A ball thrown vertically upwards in the moving train. What will happen?**

- (A) Ball returns to the thrower
- (B) Ball does not return to the thrower
- (C) Ball moves in the direction of train
- (D) Ball moves in opposite direction of train
- (E) None of these

13. **Match the following:**

- |                    |              |
|--------------------|--------------|
| (1) Heater element | (A) Tungsten |
| (2) Filament       | (B) Fan      |

(3) Electromagnets (C) High electrical resistance

(4) Rubber (D) Nichrome

(A) 1-c,2-b,3-d,4-a

(B) 1-c,2-a,3-d,4-b

(C) 1-d,2-a,3-b,4-c

(D) 1-d,2-c,3-a,4-b

(E) 1-d,2-c,3-b,4-a

14. **Jack, James, Steve, and Marks are running with 882 kg m/s, 674 kg m/s, 679 kg m/s, and 913 kg m/s momentum simultaneously. Which one of the following players would be the hardest to stop?**

- (A) James (B) Marks
- (C) Steve (D) Jack
- (E) None of these

15. **During summer season sometimes we feel very uneasy because of continuous sweating. What is the reason of this continuous sweating?**

- (A) High humidity
- (B) Evaporation
- (C) High temperature
- (D) Rain
- (E) None of these



**ANSWERS**

- |        |         |         |         |         |         |         |        |
|--------|---------|---------|---------|---------|---------|---------|--------|
| 1. (A) | 2. (C)  | 3. (A)  | 4. (C)  | 5. (C)  | 6. (A)  | 7. (B)  | 8. (D) |
| 9. (A) | 10. (C) | 11. (C) | 12. (A) | 13. (C) | 14. (B) | 15. (A) |        |