



An ISO 9001:2015 Certified Organization

**GLOBAL COMPETITION SOCIETY**

**Duration : 60 Min.**

**Total Ques. : 50**

**Paper Type : S 1**

**9**  
**CLASS**

## SAMPLE Q.P : GLOBAL SCIENCE OLYMPIAD (GSO)

1. The Actual Question Paper Contains 50 Questions.
2. Each question carry an equal marks of 2 against 50 question
3. The Duration of the Test Paper is 60 Minutes

1. **Read the given statement and select the correct option.**

**Statement 1 : Solid  $\text{CO}_2$  changes its state when exposed to air.**

**Statement 2 :  $\text{CO}_2$  undergoes sublimation.**

- (A) Both statement 1 and 2 are true and statement 2 is correct explanation of statement 1.  
(B) Both statement 1 and 2 are true but statement 2 in the not correct explanation of statement 1.  
(C) Statement 1 is true but statement 2 is false.  
(D) Both statement 1 and 2 are false.  
(E) None of these

2. **Sheela heated a mixture of iodine and common salt by keeping an inverted funnel on it. After some time, she observed that**



- (A) White fumes come out from the mixture  
(B) Violet particles deposit on the neck of the funnel  
(C) White particles deposit on the neck of the funnel  
(D) A gas with popping sound comes out.  
(E) None of these

3. **A sample of ammonia weighs 4 g. What mass of sulphur dioxide contains the same number of molecules as are in 4 g of ammonia?**

- (A) 64 g (B) 32 g  
(C) 15 g (D) 30 g  
(E) None of these

4. **206 g of molten sodium bromide is decomposed electrolytically. The maximum mass of sodium obtained is**

**[Atomic mass of Na = 32 u, Br = 80 u]**

- (A) 40 g (B) 46 g  
(C) 52 g (D) 23 g  
(E) None of these

5. **Read the given statement and mark the correct option.**

**Statement 1 : Bohr's orbits are called stationary orbits.**

**Statement 2 : Electrons remain stationary in these orbits for some time.**

- (A) Both statement 1 and 2 are true and statement 2 is correct explanation of statement 1.  
(B) Both statement 1 and 2 are true but statement 2 in the not correct explanation of statement 1.  
(C) Statement 1 is true but statement 2 is false.  
(D) Both statement 1 and 2 are false.  
(E) None of these

6. **Unicellular algae X and Y of the same species were taen and experimentally, chloroplasts were removed from cell X. After some time, they both were kept in bright sunlight for few hours**

and then iodine test was performed on them .  
What will be the results ?

- (A) Both X and Y will turn blue-black.
- (B) Cell X will turn blue-black.
- (C) Cell Y will turn blue-black.
- (D) Both X and Y will remain as they originally were.
- (E) None of these.

7. Which of the following statements is correct for a secretory cell ?

- (A) Golgi apparatus is absent.
- (B) Rough endoplasmic reticulum is abundantly present in the cell.
- (C) Only smooth endoplasmic reticulum is present.
- (D) Secretory granules are formed in nucleus.
- (E) None of these

8. A Nuclear reactor uses as fuel

- (A) Graphite
- (B) Cadmium
- (C) Uranium
- (D) Heavy Water
- (E) None of these

9. Which of the following statements regarding apical meristem is incorrect ?

- (A) It bring about increase in length of the root and stem.
- (B) It develops by the differentiation of permanent tissues.
- (C) It constitute primary meristem.
- (D) All of these.
- (E) None of these

10. Select the correct statement regarding meristematic tissues.

- (A) They are found at specific locations in the animal body.
- (B) They have cells with thick secondary walls.
- (C) They perform the function of growth and division
- (D) Both (A) and (C)
- (E) None of these

11. Select the incorrect statement out of the following.

- (A) The reserve food material of fungi is glycogen.
- (B) Thallophytes include algae.
- (C) Locomotory organ of echinoderms is tube feet.
- (D) Annelids are acoelomates.
- (E) None of these

12. Which of the following statement is correct about dicotyledons ?

- (A) Their root system consists of fibrous roots only.
- (B) Their leaves have parallel venation.
- (C) The vascular bundles in their stems are arranged in a ring.
- (D) Their flowers are trimerous.
- (E) None of these

13. These animals are cold-blooded, have scales and breathe through lungs. They have four-chambered heart. They lay eggs with tough covering, well adapted to dry land conditions. Which of the following animals is being referred to in the above passage ?

- (A) Chameleon
- (B) Lizard
- (C) Crocodile
- (D) Tortoise
- (E) None of these

14. A particle is moving in a straight line with initial velocity  $u$  and uniform acceleration  $a$ . If the sum of the distances travelled in  $t^{\text{th}}$  and  $(t + 1)^{\text{th}}$  seconds is 100 cm, then its velocity after  $t$  seconds in  $\text{cm s}^{-1}$  is

- (A) 20
- (B) 30
- (C) 50
- (D) 80
- (E) None of these

15. The average velocity of the dancer during time interval between  $t = 2$  s to  $t = 9$  s is

- (A)  $1 \text{ m s}^{-1}$
- (B)  $-0.57 \text{ m s}^{-1}$
- (C)  $2.75 \text{ m s}^{-1}$
- (D)  $-0.29 \text{ m s}^{-1}$
- (E) None of these

16. How does a Thermos keep the liquid hot for a long time ?

- (A) Because the shining inner walls and double walls of the outer covering do not allow heat to escape
- (B) Because it is packed with gases which release heat
- (C) Because it has internal heating arrangement
- (D) Both A & B
- (E) None of these