

# International Science Supremo Olympiad (ISSO)

## CLASS-8 SAMPLE QUESTION PAPER

The Actual Question Paper Contains 50 Questions. The duration of the Test Paper is 60 Minutes.



**CPS OLYMPIADS**  
COMPETITION PROMOTION SOCIETY

DECADES OF EDUCATIONAL EXCELLENCE  
An ISO 9001:2008 Certificated Organization

- A boy is acted upon by a constant force directed towards a fixed point. The magnitude of the force varies inversely as the square of the distance from the fixed point. What is the nature of the path?

(A) Straight line (B) Circle  
(C) Random motion (D) Can't say  
(E) None of these
- Annie observes lightning in her area. She hears the sound 5 s after she observed lighting. How far is she from the place where lightning occurs if speed of sound in air is  $330 \text{ m s}^{-1}$ .

(A) 1.65 km (B) 2.55 km  
(C) 3.65 km (D) 4.55 km  
(E) None of these
- While playing a violin, in which of the following the vibrations can take place?

(A) The wire only  
(B) Air only  
(C) The box only  
(D) Both the wire and box  
(E) None of these
- Bees, which are not carrying honey, fly with a flapping frequency of 440 Hz while those which are carrying honey fly with a flapping frequency of 300 Hz. The sound made by bees which are not carrying honey has:

(A) A lower pitch (B) A higher pitch  
(C) A smaller loudness (D) A greater loudness  
(E) None of these
- Oxygen can be supplied to a fish tank by bubbling air in to water. The pressure and the volume of the air bubbles while they are rising respectively:

(A) Decreases, increases  
(B) Decreases, decreases  
(C) Increases, decreases  
(D) Increases, increases  
(E) None of these
- A ball is dropped from a spacecraft revolving the earth at a height of 100 km. What will happen to the ball?

(A) It will continue to move with the same speed along the original orbit of spacecraft.  
(B) It will move with the same speed, tangentially to the spacecraft.  
(C) It will go very far in the space.  
(D) It will fall down to earth gradually.  
(E) None of these
- When was the sun formed?

(A) 15 billion years ago  
(B) 4.5 billion years ago  
(C) 10 billion years ago  
(D) 11.5 billion years ago  
(E) None of these
- Some animals and birds move from their habitats seasonally to other areas. Such a movement is called \_\_\_\_\_.

(A) Emigration  
(B) Immigration  
(C) Migration  
(D) All of these  
(E) None of these.
- Which force prevents us from slipping while walking on the road?

(A) Muscular force of our body  
(B) Gravitational pull by the earth  
(C) Fractional force  
(D) Balanced force of nature  
(E) None of these.
- Why do we move faster on roller- skates than on shoes?

(A) The roller- skates have rollers to reduce friction.  
(B) The roller- skates have more surfaces in contact with the ground.  
(C) The roller- skates have no gravitational force.  
(D) The roller- skates absorb heat from the ground.  
(E) None of these.