



Junior Physics Olympiad (JPO)

Sample Question Paper – Class VI

1. Which of the following is not a physical quantity?

- A) Length
- B) Mass
- C) Happiness
- D) Time

2. Which instrument is most suitable for measuring the thickness of a notebook?

- A) Measuring tape
- B) Metre scale
- C) Thermometer
- D) Clock

3. A student measures the length of a table as 2.4 m. Which of the following is the same length?

- A) 24 cm
- B) 240 cm
- C) 2400 cm
- D) 0.24 cm

4. Rahul starts walking from home to school. After reaching school, he immediately returns home.

Which statement is correct?

- A) Distance = 0, Motion = 0
- B) Distance > 0, Final position is same as initial position
- C) Distance = Final position
- D) Motion did not occur

5. Which of the following shows periodic motion?

- A) A flying bird
- B) A moving car on a highway
- C) A swinging pendulum
- D) A rolling football

6. Which object experiences both push and pull during normal use?

- A) Door
- B) Stone lying on the ground
- C) Tree
- D) Cloud

7. A magnet attracts an iron nail kept on a table without touching it. This is an example of

- A) Contact force
- B) Muscular force
- C) Non-contact force
- D) Friction

8. Four students observe the same object from different sides. Their observations are slightly different.

The best conclusion is

- A) Only one student is correct.
- B) Observation depends on the observer's position.
- C) The object changed its shape.
- D) All observations are wrong.

9. Which of the following can produce its own light?

- A) Moon
- B) Mirror
- C) Electric bulb
- D) Planet

10. A white shirt appears red under pure red light. Which statement is correct?

- A) The shirt became red.
- B) The shirt reflects the red light reaching it.
- C) The shirt absorbs all light.
- D) The shirt produces red light.

11. Two plane mirrors are placed facing each other. A small toy is placed between them.

You are most likely to observe

- A) One image
- B) Two images
- C) Many images
- D) No image

12. Which material is translucent?

- A) Clear glass
- B) Brick wall
- C) Butter paper
- D) Mirror

13. Which arrangement will light a bulb?

- A) One terminal of the bulb connected to the cell
- B) Both bulb terminals connected to the same terminal of the cell
- C) Both bulb terminals connected to different terminals of the cell using wires
- D) Bulb placed near the cell without wires

14. Which material is the best conductor among these?

- A) Plastic
- B) Dry wood
- C) Copper
- D) Rubber

15. A switch in a circuit is kept open.

The bulb will

- A) Glow brighter
- B) Glow dimly
- C) Not glow
- D) Burst

16. Which statement about magnets is always true?

- A) Every magnet has only one pole.
- B) Like poles attract each other.
- C) Unlike poles attract each other.
- D) Magnets attract every object.

17. A compass needle always points approximately towards

- A) East-West
- B) North-South
- C) Upward
- D) Downward

18. Four objects are placed near a magnet.

- Iron key
- Plastic ruler
- Aluminium foil
- Wooden stick

Which object is certainly attracted?

- A) Plastic ruler
- B) Wooden stick
- C) Iron key
- D) Aluminium foil

19. A student records the following temperatures:

- 32°C
- 31°C
- 33°C
- 32°C

The best value representing the observation is

- A) 31°C
- B) 32°C
- C) 33°C
- D) 35°C

20. Which student is showing the best scientific reasoning?

- A) "I guessed the answer."
- B) "I copied my friend's answer."
- C) "I observed carefully and used evidence before deciding."
- D) "I selected the longest option."