Transweb Educational Services Pvt Ltd
B -147, Sector -6 Noida, UP - 201301,
www.askiitians.com
Email: info@askiitians.com
Tel: 1800-2000-838

Class: 7
Subject: physics
Topic: Motion And Time
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

1. Which of the following instrument measures time with the most accuracy?
    a. Sun dial
    b. Sand clock
    c. Quartz clock
    d. Mechanical clock with gears

    Ans. c

2. The basic unit of speed is:
    a. Km/min
    b. m/min
    c. km/h
    d. m/s

    Ans. d

3. A faster moving object covers:
    a. less distance in more time
    b. more distance in more time
    c. less distance in shorter time
    d. more distance in shorter time

    Ans. d

4. 36 km/hr can also be expressed as:
    a. 10m/s
    b. 3.6m/s
    c. 100m/s
    d. 36m/s

    Ans. a

Transweb Educational Services Pvt Ltd
B -147, Sector -6 Noida, UP - 201301,
www.askiitians.com
Email: info@askiitians.com
Tel: 1800-2000-838

5. If an object moving along a straight line, keeps changing its speed, then
    a. The motion is said to be a uniform motion
    b. The motion is said to be a non-uniform motion
    c. The object is said to be stationary
    d. The motion is said to be a fast motion

    Ans. b

6. The motion that repeats itself after regular intervals of time can be__ (find the incorrect option)
    a. To and fro motion
    b. Circular motion
    c. Rectilinear motion
    d. Periodic motion

    Ans. c

7. The metallic ball in a pendulum is called as
    a. Gong
    b. Fork
    c. Rod
    d. Bob

    Ans. d

8. Which of the following relations is correct?
    a. Speed = distance x time
    b. Speed = distance ÷time
    c. Speed = time÷ distance
    d. Speed = 1/(distance x time)

    Ans. b

9. Which of the following is a scalar quantity?
    a. Distance
    b. Displacement
    c. Velocity
    d. Force

    Ans. d

Transweb Educational Services Pvt Ltd
B -147, Sector -6 Noida, UP - 201301,
www.askiitians.com
Email: info@askiitians.com
Tel: 1800-2000-838

10. The meter that is used to measure the distance moved by the vehicle is known as____
    a. Speedometer
    b. Odometer
    c. Chronometer
    d. Ammeter

    Ans. b

11. What are the points that should be kept in mind while choosing scale for drawing a graph?
    a. The difference between the highest and the lowest values of each quantity.
    b. The intermediate values of each quantity to mark the values on the graph.
    c. To utilize the maximum part of the paper on which graph is to be drawn.
    d. All of the above

    Ans. d

12. A simple pendulum takes 15 seconds to complete 5 oscillations. What is the time period of the pendulum?
    a. 15 Sec
    b. 5 Sec
    c. 3 Sec
    d. 45 Sec

    Ans. c (Time taken in one oscillation = 15/5 = 3 Sec.)

13. Sunila covers a distance of 2.4 km from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/sec, calculate the time taken by her to reach the school
    a. 600 S
    b. 1200 S
    c. 2400 S
    d. 3600 S

    Ans. b

14. A bus covers a distance from A to B at 40 km/h and while returning it travels at 50 km/h. calculate the average speed.
    a. 5 m/s
    b. 7.5 m/s
    c. 10 m/s
    d. 12.5 m/s

Transweb Educational Services Pvt Ltd
B -147, Sector -6 Noida, UP - 201301,
www.askiitians.com
Email: info@askiitians.com
Tel: 1800-2000-838

Ans. d

15. The odometer of a car reads 57321.0 km when the clock shows the time 08:30 AM. If at 08:50 AM, the odometer reading has changed to 57336.0 km, Calculate the speed of the car in km/hr during this time.
    a. 45 km/hr
    b. 90 km/hr
    c. 22.5 km/hr
    d. 15 km/hr

    Ans. a

    Time taken = 20 min = 20/60 hr = 1/3 hr

    Distance travelled = 15 km

    So, speed = Distance/time = 45 km/hr

16. Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/s, calculate the distance between her house and the school.
    a. 1.8 km
    b. 3.6 km
    c. 18 km
    d. 36 km

    Ans. a

17. The distance between two stations is 240 km. A train takes 6 hours to cover this distance. Calculate the speed of the train
    a. 10 km/h
    b. 20 km/h
    c. 30 km/h
    d. 40 km/h

    Ans. d

Transweb Educational Services Pvt Ltd
B -147, Sector -6 Noida, UP - 201301,
www.askiitians.com
Email: info@askiitians.com
Tel: 1800-2000-838

18. If a car is moving with a speed of 5 km/h on a highway find the distance travelled by the car in 3 hours?
    a. 1.5 km
    b. 1500 m
    c. 150 m
    d. 15000 m

    Ans. d

19. A car is moving with speed 72 km/hr. Convert this speed into metre/sec
    a. 10 m/s
    b. 20 m/s
    c. 30 m/s
    d. 40 m/s

    Ans. b

20. Which motion is not oscillatory?
    a. Motion of your hands while running.
    b. Motion of a child on a see-saw.
    c. Motion of the hammer of an electric bell
    d. Rotation of the Earth.

    Ans. d