Sardar Kaurey Khan Public Higher Secondary School Muzaffargarh

Class: 9th Chapter: 1-5 Subject: Physics Dated: 17-04-2020 Time: 2 Hours

(Objective)

Q.1 Select the correct option. (12)

1- Which one of the following is base quantity?
a) Speed b) area c) distance

2- 62750 in standard form can be written as
a) 6.275×10^4 b) 62.75×10^3 c) 0.6275×10^5

3- Falcon can fly at a speed of ____.
a) 2000 m/sec b) 200 m/sec c) 200 km/h d) 200 km/h

4- 1 ms^{-1} = _____ km/h
a) 10 b) 20 c) 3.6 d) none

5- Coefficient of static friction between Rubber and concrete is given by
a) 1.0 b) 0.6 c) 0.8 d) 0.05

6- If the velocity of a body is doubled, the centripetal force becomes
a) double b) ½ c) four times d) ¼ th

7- The no. of perpendicular components of a force are
a) 1 b) 2 c) 3 d) 4

8- A body is in equilibrium when its
a) acceleration is uniform b) speed is uniform
c) speed and acceleration are uniform d) acc. Is zero

9- The value of 'g' at a height of one Earth's radius above surface of Earth is
a) 2 g b) ½ g c) 1/3 g d) ¼ g

10- Man completes its one revolution around the Earth in _____ days.
a) 24 days b) 25.6 days c) 27.3 days d) 29 days

11- A measuring cylinder is used to measure
a) mass b) area c) volume d) level of liquid

12- A change in position is called
a) speed b) velocity c) displacement d) distance

(Subjective) Part 1

Q.2 Write short answers of the following questions. 5x2=10

1- Identity the following as base or derived quantity:
Density, force, mass, speed, time, length, temperature and volume.

2- Define Geo Physics.

3- Define the pitch of screw guage.

4- Calculate the least count of vernier calipers.

5- Express the following quantities using prefixes.
a) 52×10^{-10} kg b) 2000,000 w

6- A cyclist moving on a circular track with uniform speed. Will its velocity be uniform or variable.

Part 2

Note: Attempt any two questions. 9x2=18

Q.5 (a) Derive the second equation of motion. (5)

(b) How much time is required to change 22 NS momentum by a force of 20N. (4)

Q.6 (a) State and explain second law of motion. (5)

(b) A train moves with a uniform velocity of 36 km/h for 10 sec. find the distance travelled by it. (4)

Q.7 (a) Calculate the mass of Earth. (5)

(b) Find perpendicular components of a force of 50 N making an angle of 30^o with x-rays. (4)