



United International University

School of Science and Engineering

Quiz#01; Year 2020; Semester: Fall

Course: PHY 105; Title: Physics

Full Marks: 20; Section: E; Time: 30 minutes

Name:	ID:	Date:
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Each question has equal number:

20x1=20

(i) Write down in one statement answer.

1. Suppose $x = A \sin(\omega t + \delta)$. What is the maximum velocity of the SHM in that equation?

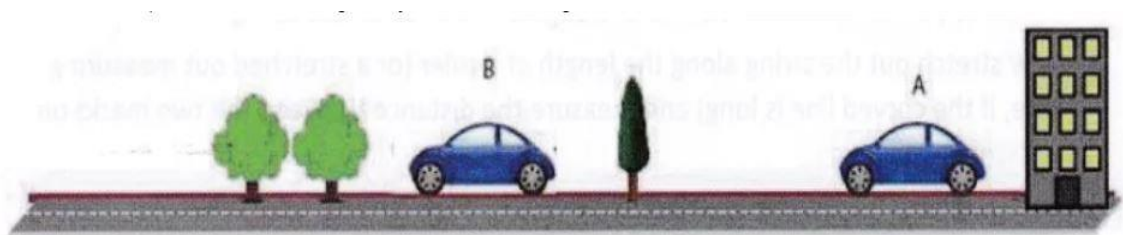
2. How many types of total motions?

3. Which types of motion it is- "A car moves north-east at 45° "?

4. Which types of motion it is- "The motion of a satellite"?

5. Which one is correct for SHM?

Ans: ☐ Gain of huge energy ☐ Absence of all friction ☐ Inelastic restoring force ☐ Inelastic collision
☐ Aperiodic Motion.



6.

Figure exhibits which types of motion?

Ans: ☐ Linear motion ☐ Uniform motion ☐ Non-uniform motion ☐ Vibrational motion ☐ Aperiodic motion.

7. "A train moving on a straight track"-which types of motion it is for most of the case?

Ans: ☐ Linear Motion ☐ Linear and vibrational motion ☐ Aperiodic motion ☐ 2D motion ☐ Parallel motion.

8. "The blade motion of an electric fan"-Which types of motion it is?

Ans: ☐ Linear Motion ☐ Vibrational motion ☐ Rotational motion ☐ Aperiodic motion ☐ Rotational vibrational motion.

9. "A bicycle going along a straight road at a constant speed"-Which types of motion it is?

Ans: ☐ Linear Motion ☐ Vibrational motion ☐ Uniform motion ☐ Non-uniform motion ☐ None of them.

10. The motion of "A bouncing ball" is?

Ans: ☐ Linear Motion ☐ Vibrational motion ☐ Uniform motion ☐ Non-uniform motion ☐ Linear and vibrational motion.

11. Which of the followings is EM wave?

Ans: ☐ Square wave ☐ De-Broglie wave ☐ Laser ray wave ☐ Ultrasonic wave ☐ Seismic wave.

12. Which wave is used for digital signal?



13. Which types of wave it is?



14. Which type of wave it is?

(ii) Write down the following statements are True or False. If true write True and if false write False.

15. Motion of a swinging pendulum is found due to the movement of to and fro motion at an average position.

16. The maximum displacement of a SHM is 'A'.

17. Phase difference can be calculated in 3 ways.

18. "Ripple wave" has small amplitude waves.

19. "Motion of a potter's wheel" is a perfect example for rotational-vibrational motion.

20. A spinning top exhibits rectilinear motion.