

United International University

School of Science and Engineering Quiz#01; Year 2020; Semester: Fall Course: PHY 105; Title: Physics Full Marks: 20; Section: C; Time: 30 minutes

Name:	ID:	Date:
Each questions has equal number:		20x1=20
(i) Write down in one statement answer.		
1. Write down the Hook's law.		
2. Write down the differential equation of SHM.		
3. Which types of motion it is- "Surfing in the sea"?		
4. Waves are mainly how many types?		
5. Which one of the following is EM wave?		
Ans: ⊙ De-Broglie wave ⊙ Pressure wave ⊙ Seiche wave ⊙ Radio Wave ⊙ Solitary wave.		
6. "Pressure wave"- is which types of wave?		
Ans: ⊙ Transverse wave ⊙ Mechanical wave ⊙ Shock wave ⊙ Gravitational wave ⊙ None of them. 7. "Bees fly"-which types of motion it is?		
8. "A stone thrown up in the air at an angle"-Which t Ans: ⊙ Linear Motion ⊙ Non-uniform motion ⊙ Rotational vibrational motion.	ypes of motion it is? ○ Semi-circular motion ○ /	Aperiodic motion ⊙
9. "Outer portion of the blade of a windmill"Which types of motion it is? Ans: ⊙ Linear Motion ⊙ Vibrational motion ⊙ Rotational motion ⊙ Aperiodic motion ⊙ Rotational vibrational motion.		
10. "Merry-go-round"-Which types of motion it is?Ans: ⊙ Linear Motion ⊙ Non-uniform motion ⊙ I⊙ Aperiodic motion.	Rotational motion ① Rotation	al vibrational motion
11. Which of the followings is bounded by partially sta	anding wave?	
Ans: O Soliton O Stationary wave O Cross waves O Seiche waves O Rayleigh waves		



12. Which types of wave it is?



13. Which type 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. Seismic waves are mainly two types:
- 16. The 'P-Wave' seismic wave is a longitudinal wave.
- 17. Wave can transfer information.
- 18. "Motion of a fan" is an example of Vibrational motion.
- 19. 'A simple harmonic motion' always tends to move at an average point.
- 20. Acceleration amplitude of a SHM is $-\omega^2 A$.