তারিখ : .....

Assignment 01

Tawhidul Islam

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Physics

Section : A

Phy 105

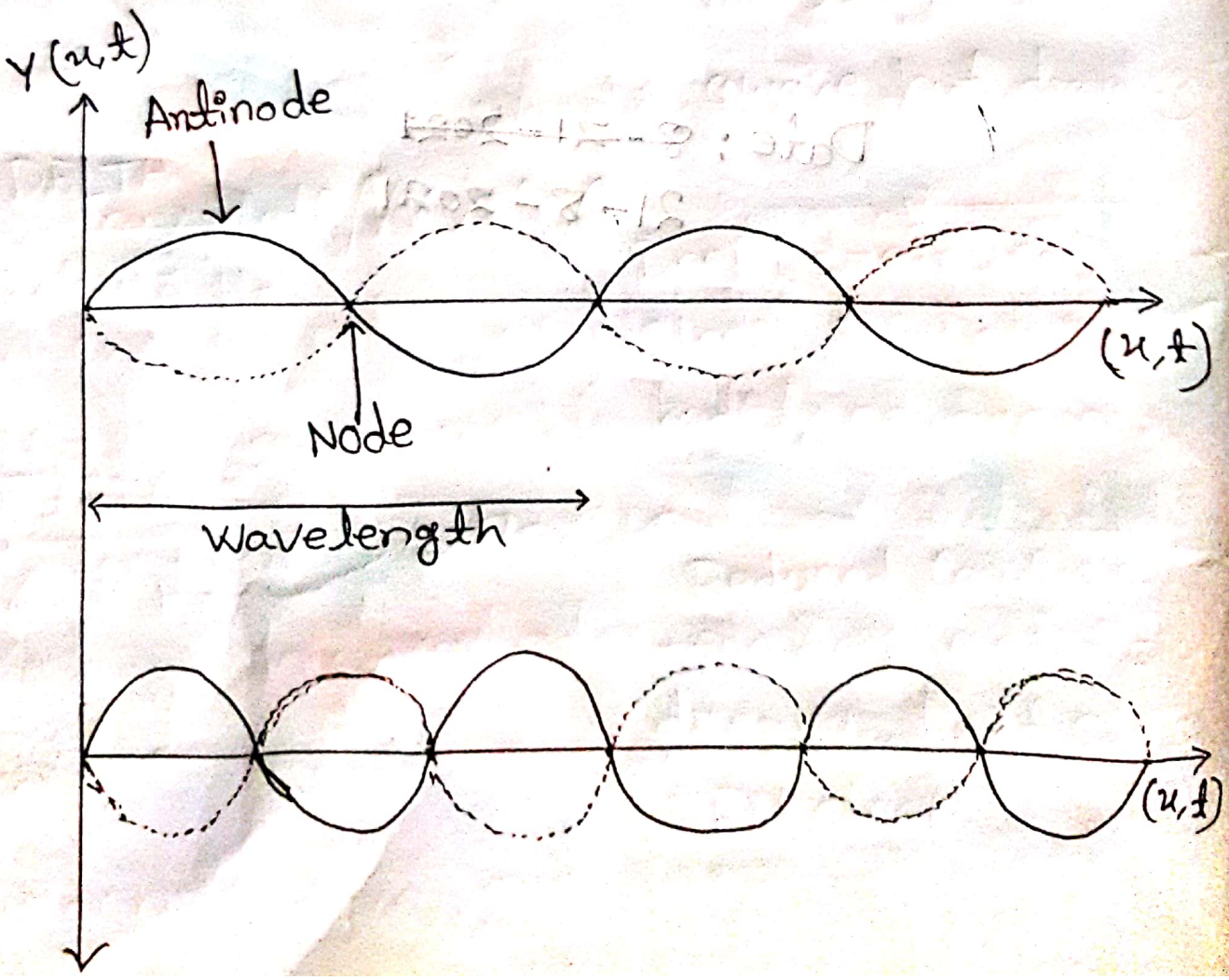
Date : 21-8-2021

তারিখ : .....

Ans to the qsn NO: 2

qsn: Applications or examples of different types of waves.

1. Standing Waves



Standing wave, also called stationary wave, combination of two waves moving in opposite directions, each having the same amplitude and frequency. The phenomenon is the result of interfer-ence; that is, when waves are superimposed, their energies are either added together or canceled out.

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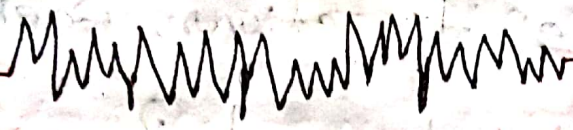
Brain Waves

BETA



14 - 30 Hz

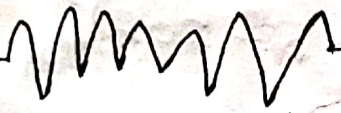
Awake, normal alert Consciousness

ALPHA

9 - 13 Hz

Physically and mentally relaxed, awake but drowsy

DELTA



Below 4 Hz

Deep (dreamless) sleep, loss of bodily awareness

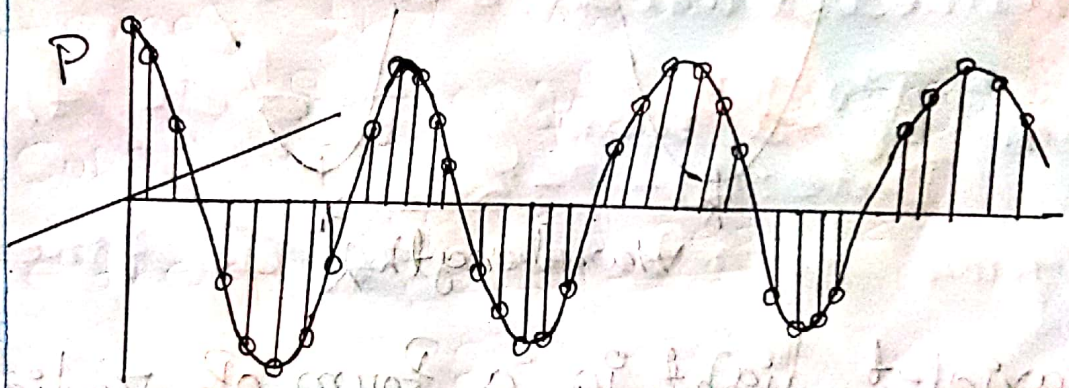
THETA

4 - 8 Hz

Reduced Consciousness deep meditation, dreams, light sleep, REM sleep.

30 Hz and above — Heightened perception

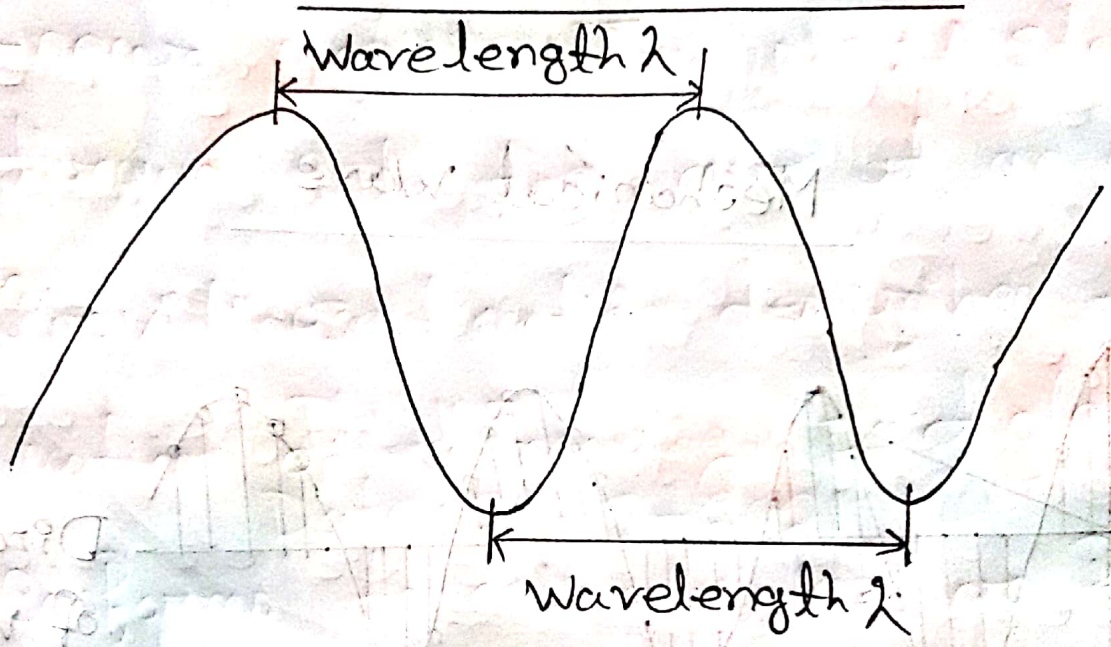
Mechanical Wave



Mechanical Waves are waves which propagate through a material medium (solid, liquid, or gas) at a wave speed which depends on the elastic and inertial properties of that medium. There are two basic types of wave motion for mechanical waves: longitudinal waves and transverse

waves.

Ultraviolet Wave



Ultraviolet light is a form of radiation which is not visible to the human eye. It's in an "invisible part of the "electromagnetic spectrum". Radiated energy, or radiation, is given off by many objects: a light bulb, a crackling fire, and stars are some

examples of objects which emit radiation.

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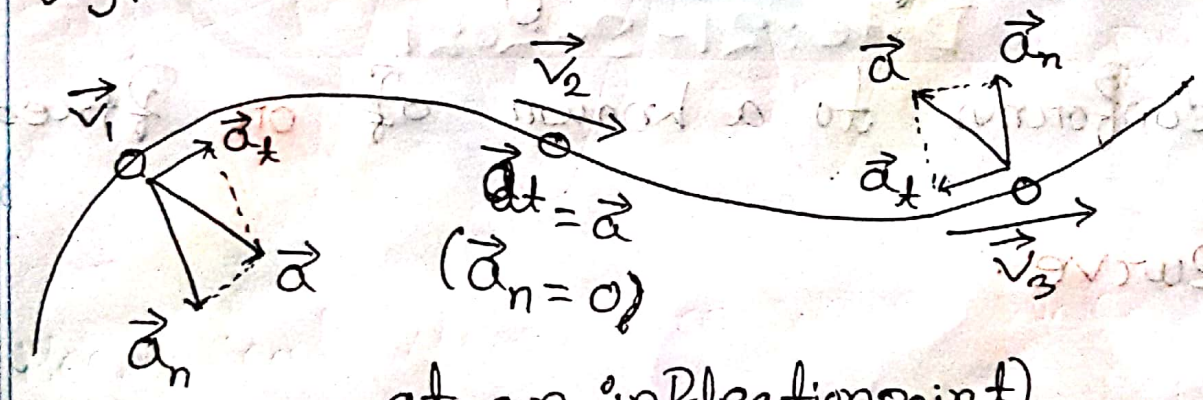
Ans to the qm No: 1

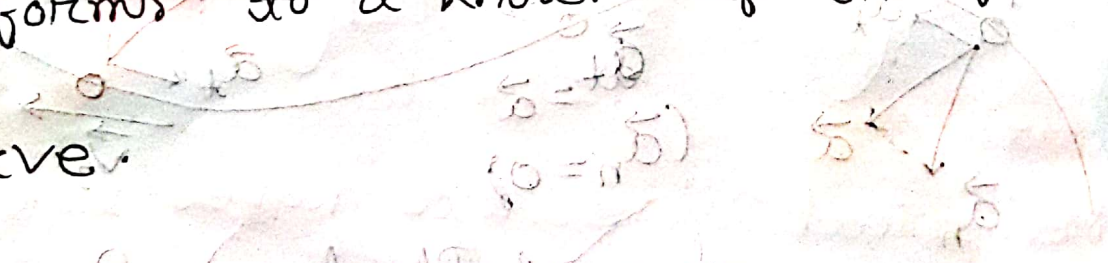
Application or examples of different types of motion. 1) Curvilinear Motion



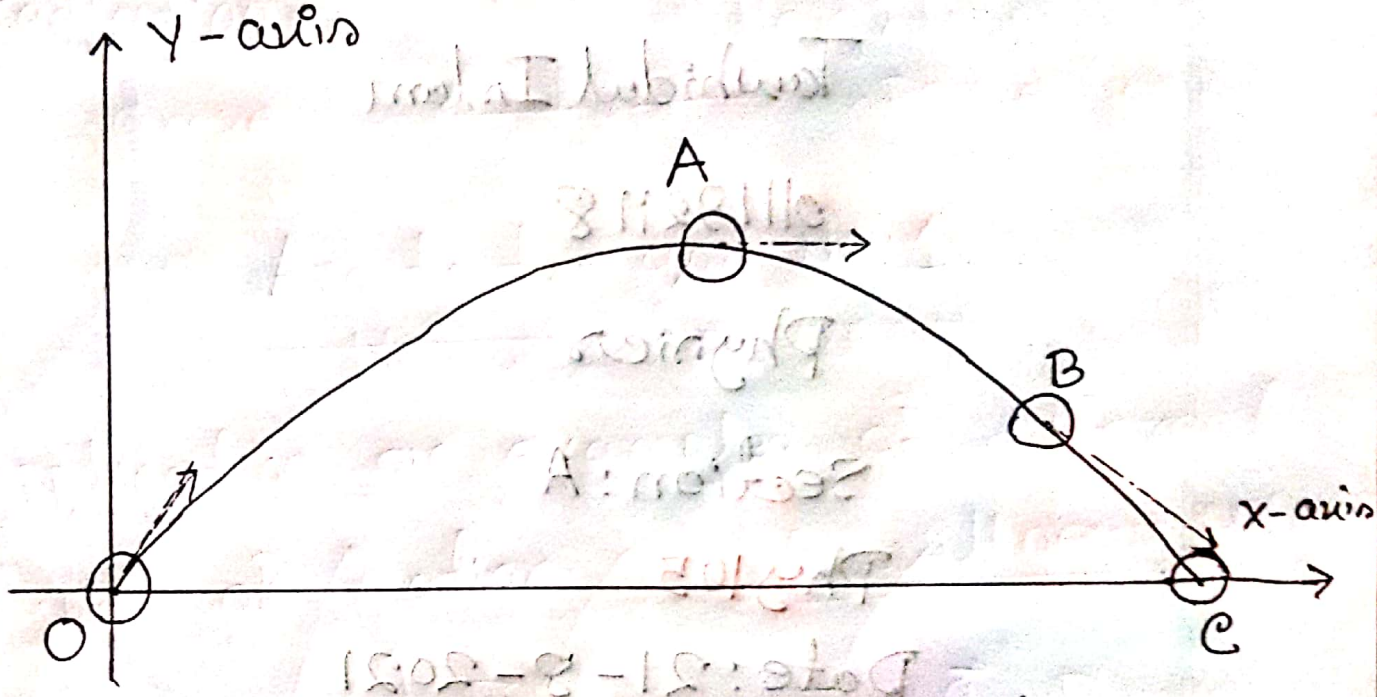
Curvilinear Motion.

তারিখ : .....

The motion of an object moving in a curved path is called curvilinear motion. Example: A stone thrown into the air at an angle. Curvilinear motion describes the motion of a moving particle that conforms to a known or fixed curve.



Translational Motion



Translational motion is the motion by which a body shifts from one point in space to another. One example of translational motion is the the Motion of a bullet fired from a gun. An object has a rectinear motion when it moves along a straight line.

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