KALPAVRUKSHA MODEL SCHOOL

ONLINE CLASS ASSIGNMENT

Class: VI **Sub: Physics** **Date:28.06.2021**

Topic: Measurement and Motion Part -7

Commented [1]: Approved

I. Answer the following questions:

1. Define rotational motion. Give two examples of rotational motion.

Ans : A type of motion in which an object moves in a circular path about a fixed point, staying at the same distance from the fixed point, is called rotational motion.
Examples: Objects undergoing rotational motion are blades of a rotating fan, merry-go-round, and blades of a windmill.

2. Difference between periodic motion and non-periodic motion.

Ans :

Non-periodic motion	Periodic motion
A motion that does not repeat itself at regular intervals of time is know as non-periodic motion.	A motion which repeats itself in equal intervals of time.
Ex : Birds gliding across the sky	Ex: Motion of pendulum

3. Write the similarities and differences between the motion of a bicycle and a ceiling fan that has been switched on.

Ans : Similarity: Both ceiling fan and bicycle exhibit circular motion.
Difference: Bicycle shows rectilinear motion while ceiling fan shows periodic motion.

4. Motion of Earth exhibits more than one type of motion. Justify this statement.

Ans : Earth revolves in circular orbit around the sun which shows circular motion and it repeats its motion in equal intervals of time which shows periodic motion. By this we can say that motion of earth exhibits more than one type of motion.

5. Is it correct to say all periodic motion is oscillatory motion and all oscillatory motion is periodic? Give reasons.

Ans : In oscillatory motion body repeats its action in equal intervals of time so, all periodic motion is oscillatory motion and vice versa. For example motion of swing, pendulum and motion of earth on its axis.