18/05/2020 **JESUS AND MARY SCHOOL AND COLLEGE** MODULE-2

**CLASS-9 ( PHYSICS )**

**CHAPTER NAME – MOTION IN ONE DIMENSION**

**WORKSHEET-2**

**Please refer to the video prepared for this chapter.**

**Q.1.** What is speed? Explain it with its unit.

**Q.2.** What is velocity?

**Q.3.**What is the difference between speed and velocity?

**Q.4.** What is acceleration? Explain it with its unit.

**Q.5.** What is the difference between distance and displacement?

**Q.6.** What are the first three fundamental quantities?

**Note**- **Please do this assignment in your copies. It will be checked when the school re-opens.**

**SOLUTION TO WORKSHEET-1**

**( uploaded on 04/05/2020 )**

**Ans.1.** Quantities having magnitude only are called scalar quantities.

**Ans.2.** Quantities having magnitude as well as direction and can be added or subtracted by vector

 addition law are called as vector quantities.

**Ans.3.** Motion can be defined as movement. If any object changes its position with respect to the

 time, the object is said to be in motion.

**Ans.4.** If an object does not change its position with respect to the time then the object is said to be at

 rest. If an apple is lying on a table and does not show any movement then the apple is said to

 be at rest.

**Ans.5.** Refer to the video.

**Ans.6.** Refer to the video.

**Ans.7.** Scalar quantities–i) Time

 ii) Speed

 iii) Distance

 iv) Pressure

 Vector quantities–i) Force

 ii) Velocity

 iii) Displacement

 iv) Work

**Ans.8.** No.

 Because electric current cannot be added or subtracted by vector addition law.

**Ans.9.** Frame of reference is something from which we observe the motion. If a man is sitting on a

 moving train then the frame of reference for the man will be the train.

**Ans.10.** Unit of displacement is metre (m).

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