


PWT-2 (13-08-2023)
PHYSICS

1. (4) As the distances are same so,  $v_{av} = \frac{2v_1v_2}{v_1 + v_2}$

2. (1) Time average speed = $\frac{v_1 + v_2}{2} = \frac{80 + 40}{2} = 60 \text{ km/hr}$.

3. (1) $\vec{r} = 20\hat{i} + 10\hat{j} \therefore r = \sqrt{20^2 + 10^2} = 22.5 \text{ m}$

4. (4)

5. (4)

6. (3)

7. (1) Magnitude of velocity = Speed; So, if the speed is zero then it must have zero velocity also.

8. (3) The second hand of the clock in minute covers an angle of 360° and the initial and final positions

are same. So, Displacement = 0



9. (4)

10. (2)