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Essay Questions

01 Consider the following data relevant to the motion of a bicycle rider in a straight line path from a certain point.

Time (S)	0	1	2	3	4	5	6	7	8	9	10	11
Displacement(m)	0	2	4	6	6	6	8	8	7	4	2	0

- (i) Sketch the displacement time graph for the motion of the bicycle rider
- (ii) Describe in brief the motion of the above bicycle.

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- (iii) What is the displacement of the bicycle during the first 6S?
- (iv) Calculate the rate of change of the displacement during last 4S?

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02 A car was moving in a straight road. The driver suddenly applied the brake to stop the vehicle.



- (i) Describe in brief the motion of the above bicycle.
- (ii) What is the distance the vehicle traveled from t = 0 until the brake is applied?
- (iii) What is the deceleration of the vehicle occurred by applying break?
- (iv) What is the displacement of the object after 10S?
- (v) Sketch the displacement tome graph for the motion of the object until the brake is applied.





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