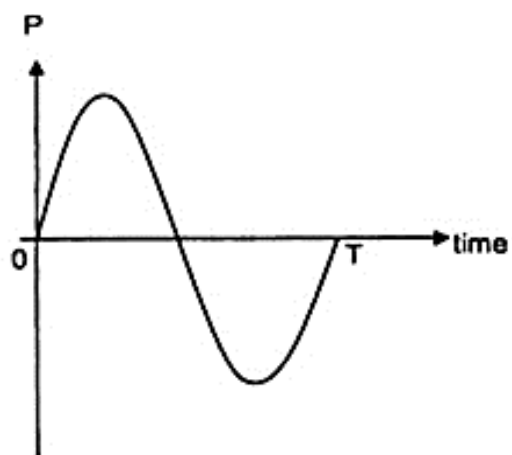
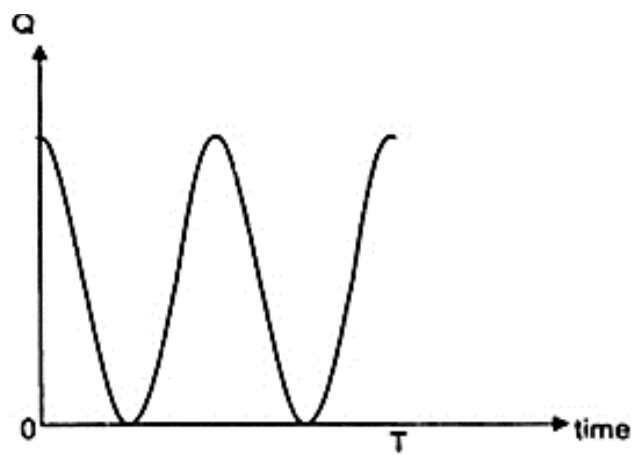


- 18 A particle executes simple harmonic motion with a period T . The graphs below show the variation of two quantities P and Q about the particle over the same time interval. Which is a possible pair of quantities that corresponds to P and Q ?



P



Q

- | | | |
|----------|-----------------------|------------------|
| A | velocity | kinetic energy |
| B | acceleration | kinetic energy |
| C | displacement | potential energy |
| D | net force on particle | potential energy |