As the temperature is increased, the time period of a pendulum

- (a) increases as its effective length increases even though its centre of mass still remains at the centre of the bob.
- (b) decreases as its effective length increases even though its centre of mass still remains at the centre of the bob.
- (e) increases as its effective length increases due to shifting of centre of mass below the centre of the bob.
- (d) decreases as its effective length remains same but the centre of mass shifts above the centre of the bob.

As I'= LXST

As'T' is increased, ST is positive and hence,

length increases.

Also, T = 27 I for a simple pendulum

As TXIL

Time period increases.