REVISED MARKING SCHEME
P3 Q1 2016 TRIAL EXAMS FIZIK
SMJK YU HUA KAJANG

Q1 (b)

Tabulation of n, a, F
Given m = 2 kg

No of elastic band, n	Acceleration, a / ms^{-2}	Force, F / N
1	u = 0.078/0.2 = 0.39 ms^{-1} v= 0.09/0.2 = 0.45 ms^{-1} a = (0.45 – 0.39)/0.2 **= 0.30**	F = ma = 2 x 0.3 **= 0.6**
2	u = 0.074/0.2 = 0.37 ms^{-1} v= 0.098/0.2 = 0.49 ms^{-1} a = (0.49 – 0.37)/0.2 = **0.60**	F = ma = 2 x 0.60 **= 1.2**
3	u = 0.066/0.2 = 0.33 ms^{-1} v= 0.102/0.2 = 0.51 ms^{-1} a = (0.45 – 0.39)/0.2 = **0.90**	F = ma = 2 x 0.90 **= 1.8**
4	u = 0.062/0.2 = 0.31 ms^{-1} v= 0.110/0.2 = 0.55 ms^{-1} a = (0.45 – 0.39)/0.2 = **1.20**	F = ma = 2 x 1.2 **= 2.4**
5	u = 0.054/0.2 = 0.27 ms^{-1} v= 0.114/0.2 = 0.57 ms^{-1} a = (0.45 – 0.39)/0.2 = **1.50**	F = ma = 2 x 1.5 **= 3.0**

All 5 values correct with consistency in the number of decimal places
Note: 10 ticks per tape ➔ time = 0.2s and not 0.02s

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