Q1. 21 January Shift 1

In an experiment the values of two spring constants were measured as $k_1 = (10 \pm 0.2)\text{N/m}$ and $k_2 = (20 \pm 0.3)\text{N/m}$. If these springs are connected in parallel, then the percentage error in equivalent spring constant is :

(1) 1.33%   (2) 1.67%   (3) 2.67%   (4) 2.33%

Q2. 23 January Shift 1

Four persons measure the length of a rod as 20.00 cm, 19.75 cm, 17.01 cm and 18.25 cm. The relative error in the measurement of average length of the rod is :

(1) 0.08   (2) 0.06   (3) 0.18   (4) 0.24

ANSWER KEYS

1. (2)   **2.** (1)