

JEE MAIN UNITS AND MEASUREMENTS — SIGNIFICANT FIGURES AND ROUNDING OFF — PYQS

Max. Marks: 24

Questions: 6

Section A (MCQ) — 6 questions

- Q.1** Keeping the significant figures in view, the sum of the physical quantities 52.01 m, 153.2 m and 0.123 m is :

[JEE Main 2026 (Online) 21st January Evening Shift]

- (1) 205.3 m (2) 205 m
(3) 205.333 m (4) 205.33 m

Scan or tap for the
full solution 

- Q.2** A person measures mass of 3 different particles as 435.42 g, 226.3 g and 0.125 g. According to the rules for arithmetic operations with significant figures, the addition of the masses of 3 particles will be. [JEE Main 2025 (Online) 3rd April Morning Shift]

- (1) 661.845 g (2) 661.84 g
(3) 662 g (4) 661.8 g

Scan or tap for the
full solution 

- Q.3** For an experimental expression $y = \frac{32.3 \times 1125}{27.4}$, where all the digits are significant. Then to report the value of y we should write

[JEE Main 2025 (Online) 24th January Morning Shift]

- (1) $y = 1326.186$ (2) $y = 1326.2$
(3) $y = 1326.19$ (4) $y = 1330$

Scan or tap for the
full solution 

- Q.4** In an expression $a \times 10^b$:

[JEE Main 2024 (Online) 8th April Morning Shift]

- (1) a is order of magnitude for $b \leq 5$
(2) b is order of magnitude for $a \leq 5$
(3) b is order of magnitude for $a \geq 5$
(4) b is order of magnitude for $5 < a \leq 10$

Scan or tap for the
full solution 

- Q.5** Time periods of oscillation of the same simple pendulum measured using four different measuring clocks were recorded as 4.62 s, 4.632 s, 4.6 s and 4.64 s. The arithmetic mean of these readings in correct significant figure is :

[JEE Main 2024 (Online) 5th April Morning Shift]

- (1) 5 s (2) 4.6 s (3) 4.62 s (4) 4.623 s

Scan or tap for the
full solution 

- Q.6** Match List - I with List - II.

List I (Number)		List II (Significant figure)	
A.	1001	I.	3
B.	010.1	II.	4
C.	100.100	III.	5
D.	0.0010010	IV.	6

Choose the correct answer from the options given below :

[JEE Main 2024 (Online) 1st February Evening Shift]

- (1) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
(2) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
(3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Scan or tap for the
full solution 

ANSWER KEY

Ques.	1	2	3	4	5	6					
Ans.	1	4	4	2	2	1					