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JEE MAIN EXPERIMENTAL SKILLS (PHYSICS) — PYQS

Max. Marks: 16 **Questions:** 4

Section A (MCQ) — 4 questions

Q.1 To compare EMF of two cells using potentiometer the balancing lengths obtained are 200 cm and 150 cm. The least count of scale is 1 cm. The percentage error in the ratio of EMFs is _____

[JEE Main 2026 (Online) 23rd January Evening Shift]

(1) 1.75 (2) 1.55 (3) 1.17 (4) 1.65

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Q.2 In parallax method for the determination of focal length of a concave mirror, the object should always be placed:

[JEE Main 2026 (Online) 22nd January Evening Shift]

(1) between the focus (F) and the centre of curvature (C) of the mirror ONLY

(2) between the pole (P) and the focus (F) of the concave mirror ONLY

(3) at any point beyond the focus (F) of the mirror

(4) beyond the centre of the curvature (C) of the mirror ONLY

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Q.3 For the determination of refractive index of glass slab, a travelling microscope is used whose main scale contains 300 equal divisions equal to 15 cm. The vernier scale attached to the microscope has 25 divisions equal to 24 divisions of main scale. The least count (LC) of the travelling microscope is (in cm) : [JEE Main 2025 (Online) 4th April Evening Shift]

(1) 0.002 (2) 0.0025 (3) 0.0005 (4) 0.001

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Q.4 In the experiment for measurement of viscosity 'η' of given liquid with a ball having radius R, consider following statements.

A. Graph between terminal velocity V and R will be a parabola.

B. The terminal velocities of different diameter balls are constant for a given liquid.

C. Measurement of terminal velocity is dependent on the temperature.

D. This experiment can be utilized to assess the density of a given liquid.

E. If balls are dropped with some initial speed, the value of η will change.

Choose the correct answer from the options given below:

[JEE Main 2025 (Online) 28th January Morning Shift]

(1) C, D and E Only (2) A, B and E Only

(3) A, C and D Only (4) B, D and E Only

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ANSWER KEY

Ques.	1	2	3	4							
Ans.	3	3	1	3							