- Complete the following nuclear equation ³⁰₁₅P → ³⁰₁₄Si + ?
 - (A) *1e
 - (B) ⁰₊₁e
 - (C) $_{-1}^{0}e$
 - (D) None
- The deviation produced by an equilateral prism, when a ray of light is incident on it, does not depend on
 - (A) angle of prism
 - (B) colour of light
 - (C) material of the prism
 - (D) size of the prism
- A triode valve has an anode resistance 20,000 Ω and amplification factor 20. The mutual conductance is
 - (A) 10⁻² mho
 - (B) 10⁻³ mho
 - (C) 103 mho
 - (D) 10² mho
- A parallel-plate capacitor has plates of dimensions 2.0 cm by 3.0 cm separated by a 1.0 mm thickness of paper. The relative dielectric constant of paper is 3.7. Find its capacitance.
 - (A) 20 pF
 - (B) 20 nF
 - (C) 200 pF
 - (D) 20 micro F

Space for Rough Work

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Julia Schneider

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