

VITEEE 2026 May 3 (Shift-1)

Question Paper (Memory-Based) PDF

Conducted by VIT Vellore



General Instructions

- (i) **Duration:** The total duration of the examination is 2.5 hours (150 minutes).
- (ii) **Total Marks:** The complete paper carries a maximum of 500 marks.
- (iii) **Structure:** The paper has 4 Sections:
 - **Part 1:** 35 Multiple Choice Questions (Physics).
 - **Part 2:** 35 Multiple Choice Questions (Chemistry).
 - **Part 3:** 40 Multiple Choice Questions (Mathematics/Biology).
 - **Part 4:** 10 Multiple Choice Questions (Aptitude).
 - **Part 5:** 5 Multiple Choice Questions (English)
- (iv) **Compulsory Questions:** All 125 questions are compulsory.
- (v) Each question has four options. Only **one** option is correct.
- (vi) **Correct Answer:** +4 marks.
- (vii) **Incorrect Answer:** -1 (Negative marking).
- (viii) **Unanswered/Marked for Review:** 0 marks.

1. If the frequency of incident light is doubled, what happens to the stopping potential? ____.

- (1) Doubles
- (2) Becomes zero
- (3) Remains same
- (4) Quadruples

2. Two resistors of 6Ω and 3Ω are connected in parallel. Equivalent resistance is: ____.

- (1) 9Ω
 - (2) 2Ω
 - (3) 4Ω
 - (4) 1.5Ω
-

3. A particle moves with velocity ($v = 3t^2 + 2t$). Find acceleration at ($t = 2$) s. ____.

- (1) 14 m/s^2
 - (2) 12 m/s^2
 - (3) 16 m/s^2
 - (4) 10 m/s^2
-

4. For a first-order reaction, the unit of rate constant is: ____.

- (1) $\text{mol L}^{-1} \text{s}^{-1}$
 - (2) s^{-1}
 - (3) $\text{L mol}^{-1} \text{s}^{-1}$
 - (4) $\text{mol}^2 \text{L}^2 \text{s}^{-1}$
-

5. Hybridization of Ni in $[\text{Ni}(\text{CN})_4]^{2-}$: ____.

- (1) sp^3
 - (2) dsp^2
 - (3) sp^2
 - (4) d^2sp^3
-

6. Which has highest acidity? ____.

- (1) Ethanol
 - (2) Phenol
 - (3) Acetic acid
 - (4) Methanol
-

7. If $y = x^x$, then $\frac{dy}{dx} = \underline{\hspace{2cm}}$.

- (1) x^x
 - (2) $x^x(1 + \ln x)$
 - (3) x^{x-1}
 - (4) $\ln x$
-

8. If determinant of a matrix is zero, then matrix is: $\underline{\hspace{2cm}}$.

- (1) Identity
 - (2) Singular
 - (3) Symmetric
 - (4) Orthogonal
-

9. Probability of getting at least one head in two coin tosses: $\underline{\hspace{2cm}}$.

- (1) $1/4$
 - (2) $1/2$
 - (3) $3/4$
 - (4) 1
-

10. Find next number: 2, 6, 12, 20, 30, ?

- (1) 36
 - (2) 40
 - (3) 42
 - (4) 44
-

