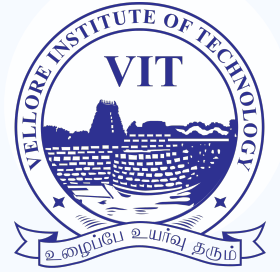


# VITEEE 2026 April 28 Shift 1

## Question Paper

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. A current of 2 A flows through a resistor for 10 minutes. What is the total charge that passes through the resistor?

- (A) 600 C
- (B) 1200 C
- (C) 200 C
- (D) 2400 C

2. A ball is dropped from a height of 20 m. What is its velocity just before hitting the ground?

- (A) 14 m/s
  - (B) 19.8 m/s
  - (C) 9.8 m/s
  - (D) 39.6 m/s
- 

3. A body of mass 10 kg is moving with a velocity of 20 m/s. What is the kinetic energy?

- (A) 1000 J
  - (B) 2000 J
  - (C) 4000 J
  - (D) 500 J
- 

4. A charged particle moves in a magnetic field  $B$  with velocity components both along and perpendicular to  $B$ . What is its path?

- (A) Circular path
  - (B) Straight line
  - (C) Helical path
  - (D) Parabolic path
- 

5. Find  $x$ :  $4(x - 2) = 3(x + 5)$ .

- (A) 23
  - (B) 17
  - (C) 13
  - (D) 7
- 

6. Find  $x$ :  $2x + 3 = 7x - 8$ .

- (A) 2.2
  - (B) 11/5
  - (C) 5
  - (D) Both (1) and (2)
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7. The sum of the first 10 terms of an A.P is 150. If the first term is 10, what is the common difference?

- (A) 1
  - (B)  $10/9$
  - (C) 2
  - (D)  $5/9$
- 

8. A stone is dropped from a height of 45 m. What is the time taken to reach the ground?

( $g = 10 \text{ m/s}^2$ )

- (A) 2 s
  - (B) 3 s
  - (C) 4 s
  - (D) 5 s
- 

9. If 'TIGER' is coded as 'JUISF', how is 'EQUAL' coded?

- (A) PFXMB
  - (B) QGYNC
  - (C) OEWLA
  - (D) PGXMB
- 

10. If "APPLE" is "BQQMF", how is "MANGO" written?

- (A) NBMHP
  - (B) NBOHP
  - (C) OBNHP
  - (D) MBNHP
- 

11. Find the odd one out: 5, 10, 20, 40, 100, 150, 200.

- (A) 40
  - (B) 100
  - (C) 150
  - (D) 200
-

12. What is the oxidation state of Cobalt in  $[Co(NH_3)_6]Cl_3$ ?

- (A) +1
  - (B) +2
  - (C) +3
  - (D) +4
- 

13. For  $2N_2O_5 \rightarrow 4NO_2 + O_2$ , if rate is  $1.02 \times 10^{-4}$  and  $k = 3.4 \times 10^{-5} s^{-1}$ , find the concentration of  $N_2O_5$ .

- (A) 1.0 mol/L
  - (B) 2.0 mol/L
  - (C) 3.0 mol/L
  - (D) 4.0 mol/L
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