

NIMCET 2027

Free Mock Test — Sample Paper 1

Subjects	Mathematics, Computer Awareness, Analytical Ability & Reasoning
Questions	15 (5 per subject)
Question Type	Multiple Choice (single correct)
Marking Scheme	+4 for correct, -1 for incorrect
Suggested Time	30 minutes

This is a free, unofficial practice paper created by freemock.in to help you get comfortable with the NIMCET format. It is not published or endorsed by NIT Raipur / the NIMCET conducting authority.

Attempt all questions, then check your answers against the answer key on the last page.

Section A — Mathematics

Q1. The value of $\log_2(32)$ is:

- (A) 4
- (B) 5
- (C) 6
- (D) 16

Q2. If A is a 3×3 matrix, the number of elements in A is:

- (A) 3
- (B) 6
- (C) 9
- (D) 12

Q3. The number of ways to arrange the letters of the word 'MATH' is:

- (A) 12
- (B) 24
- (C) 16
- (D) 8

Q4. The derivative of $\sin(x)$ with respect to x is:

- (A) $-\cos(x)$
- (B) $\cos(x)$
- (C) $-\sin(x)$
- (D) $\tan(x)$

Q5. The sum of the first n natural numbers is given by:

- (A) $n(n+1)/2$
- (B) $n(n-1)/2$
- (C) n^2
- (D) $n(n+1)$

Section B — Computer Awareness

Q6. Which of the following is a volatile memory?

- (A) ROM
- (B) RAM
- (C) Hard Disk
- (D) SSD

Q7. Binary equivalent of decimal number 10 is:

- (A) 1010
- (B) 1100
- (C) 1001
- (D) 1110

Q8. Which data structure uses FIFO (First In First Out) order?

- (A) Stack
- (B) Queue
- (C) Tree
- (D) Graph

Q9. HTML stands for:

- (A) Hyper Trainer Marking Language
- (B) HyperText Markup Language
- (C) Hyper Text Markup Leveler
- (D) None of these

Q10. Which of these is NOT an operating system?

- (A) Linux
- (B) Windows
- (C) Oracle
- (D) macOS

Section C — Analytical Ability & Logical Reasoning

Q11. Find the next term in the series: 3, 6, 11, 18, 27, ...

- (A) 36
- (B) 37
- (C) 38
- (D) 39

Q12. If 'PEN' is coded as 'QFO', how is 'BOOK' coded?

- (A) CPPL
- (B) CPPM
- (C) CPQL
- (D) DPPL

Q13. A is taller than B but shorter than C. Who is the tallest?

- (A) A
- (B) B
- (C) C
- (D) Cannot be determined

Q14. Which number should replace the question mark: 2, 6, 12, 20, 30, ?

- (A) 40
- (B) 42
- (C) 44
- (D) 36

Q15. Statement: All pens are pencils. All pencils are erasers. Conclusion: All pens are erasers.

- (A) Conclusion is true
- (B) Conclusion is false
- (C) Cannot be determined
- (D) None of these

Answer Key

Q.No	Answer	Q.No	Answer	Q.No	Answer
1	B	2	C	3	B
4	B	5	A	6	B
7	A	8	B	9	B
10	C	11	C	12	A
13	C	14	B	15	A

Want more free practice papers, updates on NIMCET 2027 dates, and personalised prep tips? Visit freemock.in for more mock tests across JEE, CUET, NEET, UPSC, CAT and other national entrance exams.