

Microsoft Placement Papers 2026

27 MCQs with answer key · Free download

[Exam pattern](#)

Programming/output and DSA logic MCQs plus CS fundamentals (OS/OOP/DBMS). Real OA is timed coding. Practice set — not an official Microsoft paper.

Questions

[Quantitative Ability](#)

Q1. Effective discount for 20% then 15%:

- A) 32%
- B) 35%
- C) 30%
- D) 33%

Q2. SI Rs30000 at 10% for 2 years:

- A) 5000
- B) Rs 6000
- C) 6300
- D) 3000

Q3. HCF 9 and 6:

- A) 18
- B) 9
- C) 3
- D) 6

[Logical Reasoning](#)

Q4. Series 2,6,12,20,30,? [Microsoft paper]

- A) 36
- B) 40
- C) 48
- D) 42

[Verbal Ability](#)

Q5. Correct spelling:

- A) Accommodation
- B) Accomodation
- C) Acommodation
- D) Acomodation

[Programming Logic](#)

Q6. Min parentheses to add for validity (single pass):

- A) Two stacks always
- B) Track balance and needed insertions
- C) Regex only
- D) Sort brackets

Q7. Valid parentheses structure:

- A) Queue
- B) Dijkstra
- C) Stack
- D) Prime set

Q8. Restore IP addresses approach:

- A) Greedy first three
- B) Hash only
- C) BFS no prune
- D) Backtracking with octet checks

Q9. Even values on even indexes in-place:

- A) Two-pointer swaps
- B) Random shuffle
- C) Sort all
- D) Extra array only

Q10. Substring vs subsequence:

- A) Identical
- B) Substring contiguous; subsequence not
- C) Both $O(1)$
- D) Neither uses DP

Q11. Two-sum on sorted array:

- A) Hash only
- B) $O(n^3)$
- C) Two pointers from ends
- D) BFS

Q12. Trie commonly used for:

- A) Sorting ints only
- B) Shortest paths
- C) Mutexes
- D) Prefix search / autocomplete

Q13. String hashing collisions need:

- A) Equality verification
- B) Ignore
- C) Delete string
- D) Ban ASCII

Technical MCQ

Q14. Virtual memory provides:

- A) Remove disks
- B) Large address space via paging
- C) Disable cache
- D) Replace compilers

Q15. Semaphore vs mutex:

- A) Identical always
- B) Mutex allows N free writers
- C) Semaphore may count N; mutex typically binary ownership
- D) No sync

Q16. Thrashing means:

- A) Perfect locality
- B) Fast cache
- C) No swaps
- D) Excessive paging with little useful work

Q17. Dependency Inversion:

- A) Depend on abstractions
- B) Only concretes
- C) Delete DI
- D) Avoid interfaces

Q18. Clustered index:

- A) Many always
- B) Typically dictates physical row order
- C) Unrelated to storage
- D) Views only

Q19. HTTPS adds:

- A) FTP only
- B) Disable TCP
- C) TLS on HTTP
- D) No certificates

Q20. Garbage collection:

- A) Only manual free
- B) Always speeds disk
- C) Replaces OS
- D) Reclaims unreachable objects

Q21. Constructor order:

- A) Base before derived
- B) Derived first
- C) Random
- D) Static only

Q22. ACID Durability:

- A) Uncommitted visible
- B) Committed data survives crashes
- C) Never fsync
- D) Memory only

Programming Logic

Q23. Matrix path DP stores:

- A) Only first cell
- B) Random
- C) Best cost to each cell
- D) Row hash only

Q24. Codility ~50% threshold implies:

- A) Solve none
- B) Skip tests
- C) Essay replaces code
- D) Partial solutions can still advance

Quantitative Ability

Q25. Rise 25% fall 20% net: [Microsoft paper]

- A) 0%
- B) 5%
- C) 45%
- D) -5%

Logical Reasoning

Q26. Syllogism: All pens books; some books tables. Some pens tables?

- A) Follows
- B) Does not follow
- C) Both follow
- D) Data inadequate always

Verbal Ability

Q27. Antonym Transparent: [Microsoft paper]

- A) Clear
- B) Bright
- C) Opaque
- D) Visible

Answer Key & Explanations

Quantitative Ability

Q1. A
Successive.

Q2. B
SI.

Q3. C
gcd.

Logical Reasoning

Q4. D
 $n(n+1)$.

Verbal Ability

Q5. A
Verbal.

Programming Logic

Q6. B
Codility-style.

Q7. C
Stack.

Q8. D
Microsoft Q

Q9. A
AA-round style.

Q10. B
Strings.

Q11. C
Arrays.

Q12. D
Microsoft interview theme.

Q13. A
Details matter on Codility.

Technical MCQ

Q14. B
OS.

Q15. C
OS.

Q16. D
OS.

Q17. A
SOLID.

Q18. B
DBMS.

Q19. C
CN.

Q20. D

Language runtime.

Q21. A

OOP.

Q22. B

DBMS.

Programming Logic

Q23. C

DP.

Q24. D

Eligibility round reports.

Quantitative Ability

Q25. A

Quant.

Logical Reasoning

Q26. B

Reasoning.

Verbal Ability

Q27. C

Verbal.