

Zomato Placement Papers 2026

28 MCQs with answer key · Free download

[Exam pattern](#)

CS MCQs (OS, DBMS, OOPs, CN, DSA) plus coding-logic themes on graphs, DP, and strings; later-round topics include rate limiters, payments idempotency, concurrency, caching, and SQL. Practice set — not an official Zomato paper.

Questions

[Operating Systems](#)

Q1. A Zomato order-worker process forks twice (no exec). Ignoring errors, how many total processes exist after both forks complete (including the original)?

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

Q2. Delivery microservices update shared rider-location state. Which best matches concurrency vs parallelism in this setting?

- A) Concurrency is overlapping task progress; parallelism is simultaneous execution on multiple cores
- B) They are identical terms for multi-threading
- C) Parallelism only applies to I/O; concurrency only to CPU
- D) Concurrency requires multiple CPUs; parallelism does not

Q3. Four riders hold restaurant locks and wait for each other in a cycle. Which Coffman condition is this?

- A) Mutual exclusion only
- B) Hold and wait only
- C) Circular wait
- D) No preemption only

[DBMS](#)

Q4. Payment capture for an order must either fully succeed or fully roll back. Which ACID property is primary?

- A) Durability
- B) Atomicity
- C) Isolation
- D) Availability

Q5. SQL for top restaurants by order count in last 30 days with at least 50 orders. Correct pattern?

- A) WHERE COUNT(*) >= 50 AND AVG(rating)
- B) GROUP BY restaurant_id HAVING COUNT(*) >= 50 ORDER BY COUNT(*) DESC
- C) ORDER BY COUNT(*) without GROUP BY
- D) SELECT DISTINCT restaurant_id only

Q6. Yearly revenue table (year, revenue). Best SQL idea to compare each year to the previous year?

- A) Self-join on year = year+1 or window LAG(revenue) OVER (ORDER BY year)
- B) GROUP BY without ordering
- C) DELETE then INSERT
- D) CROSS JOIN all years to themselves only

Q7. Hot restaurant pages are read-heavy. Which index choice is most appropriate for WHERE city_id = ? AND is_open = true?

- A) No index; full table scan is fine at Zomato scale
- B) Composite index on (city_id, is_open) matching the filter order
- C) Only a bitmap index on the primary key
- D) Hash index on the entire row blob

OOPs

Q8. In a food-delivery domain model, Order -> PaymentGatewayAdapter -> RazorpayClient. Which OOP idea is this primarily?

- A) Multiple inheritance of payment classes only
- B) Dependency inversion / adapter to decouple domain from a vendor SDK
- C) Friend classes in C++ only
- D) Operator overloading for order totals

Q9. Constructors run A then B then C; destructors should run in which order for stack objects C derived from B derived from A?

- A) A, B, C
- B) C, B, A
- C) B, A, C
- D) Random order

Computer Networks

Q10. Live rider GPS pings tolerate occasional loss but need low latency. Prefer:

- A) TCP only, because UDP cannot carry IP
- B) UDP-style datagrams or QUIC/UDP-based stacks for loss-tolerant telemetry; TCP for payment APIs
- C) SMTP for location updates
- D) FTP for every GPS point

Q11. Client resolves zomato.com before TLS. Which step is first in typical DNS resolution?

- A) Ask the authoritative mail server for MX only
- B) Check local stub resolver/OS cache, then recursive resolver toward root/TLD/authoritative
- C) Open a raw TCP connection to port 80 first
- D) Broadcast ARP for the domain name

DSA Patterns

Q12. Peak lunch demand over a day is modeled as max contiguous sum of minute-level order deltas (can be negative). Best classic approach?

- A) Bubble sort the deltas
- B) Kadane's algorithm (maximum subarray)
- C) Dijkstra on a complete graph of minutes
- D) Counting sort only

Q13. City map: restaurants as nodes, roads as non-negative weighted edges. Fastest ETA from warehouse W to restaurant R?

- A) Floyd-Warshall always, even for one query on a sparse map
- B) Dijkstra (or A*) from W; prefer heap-based Dijkstra on sparse graphs
- C) BFS ignoring weights
- D) DFS preorder only

Q14. Coupon values [1,2,5], target discount amount 11. Minimum coupons (unlimited supply) is a classic:

- A) Greedy always taking largest only (always optimal for all sets)
- B) Unbounded knapsack / coin-change DP
- C) Binary search on the coupon array only
- D) Prim's MST

Q15. Kitchen stations must finish dishes before plating; edges = prerequisites. Detect impossible menu = cycle. Algorithm?

- A) Topological sort / Kahn BFS or DFS colors; cycle => no valid order
- B) Binary search on station IDs
- C) Kadane on the adjacency matrix
- D) Two pointers on the edge list only

Q16. Promo codes along a street; cannot pick two adjacent houses (House Robber). Optimal DP idea?

- A) $dp[i] = \max(dp[i-1], dp[i-2] + a[i])$
- B) $dp[i] = dp[i-1] + a[i]$ always
- C) Sort and take every element
- D) Dijkstra from house 0

Q17. Implement LRU for restaurant menu cache: get/put in average $O(1)$. Structure?

- A) Array + linear scan only
- B) HashMap + doubly linked list
- C) Unbalanced BST only
- D) Single queue without map

Q18. LCS of two menu-name strings is $O(n*m)$ DP. If both strings have all unique characters, a faster approach can use:

- A) Only bubble sort
- B) Map positions and reduce to LIS-style / segment-tree accelerated methods discussed in interviews
- C) Hashing that always runs in $O(1)$
- D) Ignoring one string

System Scenarios

Q19. Design a rate limiter for Zomato APIs (per user/IP). Which statement is most accurate?

- A) A single global counter without windows is enough at multi-DC scale
- B) Token bucket / sliding window with Redis (or in-memory + sticky) are common; watch clock skew and memory
- C) Rate limiting must be done only in the mobile app
- D) DNS TTLs replace rate limits

Q20. Payments API: client retries after timeout; gateway may have already charged. Critical property?

- A) Idempotency keys so duplicate requests do not double-charge
- B) Disable all retries forever
- C) Use UDP for payment confirmations
- D) Store card CVV in application logs

Q21. Real-time order tracking: prefer which cache role?

- A) Redis (or similar) for hot location/status; durable store for order source of truth
- B) Only CSV files on one laptop
- C) Email inbox as the cache
- D) Blockchain for every GPS ping

Q22. Under network partition, live tracking must stay up even if replicas disagree briefly. CAP trade-off leaning toward:

- A) CA only (drop partition tolerance)
- B) AP with eventual consistency for location fan-out; stronger consistency for payment capture
- C) CP for GPS pings and AP for money always
- D) Ignore CAP; it does not apply to mobile apps

Q23. Thread-safe HashMap for in-memory promo catalogue. Wrong approach?

- A) Coarse mutex around map operations
- B) ConcurrentHashMap / striped locks
- C) Unsynchronized HashMap shared across writers with no locks
- D) Read-write lock if reads dominate

Q24. Golang order service: many outbound restaurant calls. Best concurrency primitive pair for fan-out with timeout?

- A) Goroutines + context cancellation/timeouts (and often channels/errgroup)
- B) Busy-wait loops on one OS thread only
- C) Busy fork-bomb of processes per HTTP header
- D) Disable timeouts to maximize latency

Quantitative

Q25. 15 partners deliver 450 orders in 6 hours. At same pace, orders by 25 partners in 10 hours?

- A) 1000
- B) 1250
- C) 750
- D) 1500

Q26. Mix rice Rs 40/kg and Rs 60/kg in ratio 3:2; sell at Rs 55/kg. Approx profit %?

- A) 10%
- B) 14.58%
- C) 20%
- D) 25%

Reasoning

Q27. Avg delivery time of 5 orders = 32 min; after 6th order avg = 35. Time of 6th order?

- A) 35 min
- B) 47 min
- C) 50 min
- D) 53 min

Q28. Batch sizes: 2, 6, 12, 20, 30, 42, ? Pattern $n(n+1)$.

- A) 56
- B) 48
- C) 54
- D) 60

Answer Key & Explanations

Operating Systems

Q1. C

Each fork doubles the current count: 1 -> 2 -> 4. Classic OS MCQ style reported in Zomato technical screens (fork output / process count).

Q2. A

Interviewers (Zomato SDE rounds) probe concurrency vs parallelism with examples: overlapping vs truly simultaneous work

Q3. C

A wait-for cycle is circular wait - one of four necessary deadlock conditions. Prevention often imposes lock ordering on resource types.

DBMS

Q4. B

Atomicity = all-or-nothing. Medium SDE-1 reports stress payments backends where mid-failure must not leave half-updated order/payment rows.

Q5. B

Aggregates filter in HAVING after GROUP BY. Product/analyst Zomato tracks repeatedly test joins + GROUP BY + HAVING on orders/restaurants.

Q6. A

Product Analyst interviews (Medium) ask YoY revenue diffs; LAG or self-join on consecutive years is the expected pattern.

Q7. B

Composite B-tree indexes matching selective equality filters speed restaurant listing/search paths discussed in Zomato eng interviews.

OOPs

Q8. B

Zomato interviewers ask where the product uses OOPs; adapters/interfaces around payments/notifications are realistic answers.

Q9. B

Construction runs base-to-derived; destruction is reverse order.

Computer Networks

Q10. B

TCP is reliable ordered delivery; UDP is loss-tolerant for telemetry-style traffic.

Q11. B

DNS resolution flow (cache -> recursive -> hierarchy) appears in Zomato x Blinkit technical rounds alongside Docker/K8s/Redis.

DSA Patterns

Q12. B

Kadane / max subarray is a standard Zomato coding-prep staple for contiguous peak windows.

Q13. B

LCS with a unique-character constraint often leads to LIS / segment-tree style approaches.

Q14. B

Coin change DP is repeatedly listed in Zomato coding question banks (min coins for amount).

Q15. A

Blinkit/Zomato DSA rounds include story problems reducing to topo sort + graph coloring/cycle checks.

Q16. A

House Robber / circular variants appear in Blinkit SDE-1 problem-solving rounds (with follow-ups).

Q17. B

LRU (modified) is a known Zomato on-campus interview problem; HashMap + DLL is the standard $O(1)$ design.

Q18. B

Zomato SDE round: LCS then constraint 'unique characters' leading to improved approaches (LIS / segment tree ideas)

System Scenarios

Q19. B

Zomato x Blinkit Round 2 explicitly asked to design a rate limiter with edge cases and memory optimization.

Q20. A

Aug 2025 Medium SDE-1: payments backend round covered idempotency, retries, concurrency, and failure midway.

Q21. A

Concurrency is overlapping progress; parallelism is truly simultaneous execution.

Q22. B

Prep material maps Zomato tracking to AP/eventual consistency while payments need stronger consistency - a realistic split.

Q23. C

Zomato round: implement HashMap then make it thread-safe with mutex - unsynchronized shared mutation is incorrect

Q24. A

Zomato x Blinkit advanced round: implement request logic in Go with goroutines/channels plus timeout edge cases.

Quantitative

Q25. B

Rate = $450/(15*6) = 5$ orders/partner-hour. $5*25*10 = 1250$. Delivery-work aptitude pattern used in public Zomato paper collections.

Q26. B

CP = $(3*40+2*60)/5 = 48$; profit = 7; $7/48*100 \sim 14.58\%$.

Reasoning

Q27. C

Totals 160 then 210; sixth = 50 minutes.

Q28. A

$7*8 = 56$. Common series item in Zomato-style aptitude sets.