JKB Recruitment 2026: Registration Starts 07 Nov

Complete preparation & PYQ pack for JKB Recruitment 2026 (IBPS) B.E./B.Tech posts. Features 12 core technical an...

1. EXAM / NOTIFICATION KEY FACTS & DATES

Conducting Body	Institute of Banking Personnel Selection (IBPS)
Post / Course Name	Various Posts
Minimum Qualification	B.E./B.Tech
Application Start Date	7 Nov 2026
Last Date to Apply	26 Nov 2026
Selection Process	Online Written Examination followed by Interview / Document Verification
Exam Mode & Duration	Online CBT Mode (120 - 140 Minutes)
Key Subjects	Professional Knowledge (CS/IT), Quant, Reasoning, English Language
Negative Marking	0.25 marks deducted for every wrong answer

2. 4-STEP SMART PREPARATION PLAN

1. Phase 1: Master core CS concepts (DBMS, Networking, Data Structures, OS, Software Engineering).
2. Phase 2: Build Speed in Aptitude & Reasoning with targeted formulas and shortcut techniques.
3. Phase 3: Solve Previous Year Questions (PYQs) to understand IBPS question framing and difficulty.
4. Phase 4: Take timed mock tests to improve time management and minimize negative marking.

3. SAMPLE GOLDEN SHORTCUTS & FORMULAS

* Shortcut 1: QuickSort Time Complexity: Average Case = O(n log n), Worst Case = O(n^2).
* Shortcut 2: Cyclomatic Complexity Formula: V(G) = E - N + 2P (Edges - Nodes + 2 * Connected Components).
* Shortcut 3: Successive Discount Shortcut: Net Discount = (x + y - (x * y) / 100)%.
* Shortcut 4: Equal Selling Price (Profit x% & Loss x%): Overall Loss Percentage = (x / 10)^2 %.

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4. TOP 10 HIGH-WEIGHTAGE SYLLABUS TOPICS (QUICK SUMMARY)

1. Data Structures & Algorithms
Weightage: High (5-7 Qs)

Data Structures: Trees, Graphs, Sorting algorithms like QuickSort and MergeSort, Time Complexities (O(n log n), O(1)). Stack and Queue operations (LIFO, FIFO). Binary Search Trees (BST) balanced via AVL rotations. Dyn...

2. Database Management Systems (DBMS)
Weightage: High (5-7 Qs)

Relational Database Management Systems rely heavily on SQL queries, Normalization (1NF to 3NF, BCNF) to reduce redundancy. Entity-Relationship (ER) diagrams represent schema structure. Transaction properties follow AC...

3. Computer Networks & Security
Weightage: High (5-6 Qs)

Computer Networks utilize the OSI 7-layer model and TCP/IP 4-layer architecture. Transport layer protocols TCP (connection-oriented, reliable) and UDP (connectionless, fast) manage data transmission. IP addressing inc...

4. Operating Systems & System Programming
Weightage: Medium (4-5 Qs)

Operating Systems manage CPU scheduling algorithms like FCFS, SJF, Round Robin, and Priority Scheduling. Memory management techniques include Paging, Segmentation, and Virtual Memory using Page Replacement algorithms ...

5. Software Engineering & Agile
Weightage: Medium (3-4 Qs)

Software Engineering models include Waterfall, Spiral, V-Model, and Agile Scrum framework. Software Development Life Cycle (SDLC) phases encompass Requirements Gathering, System Design, Implementation, Testing, and Ma...

6. Quantitative Aptitude: Data Interpretation
Weightage: High (5-6 Qs)

Data Interpretation (DI) in IBPS exams features Bar Graphs, Pie Charts, Line Graphs, and Caselet tables. Focus on quick percentage calculations, ratio comparisons, and average estimations. Formula for percentage chang...

7. Quantitative Aptitude: Profit, Loss & Discount
Weightage: Medium (3-4 Qs)

Profit, Loss, and Discount problems focus on relations between Cost Price (CP), Selling Price (SP), and Marked Price (MP). Profit percentage equals ((SP - CP) / CP) * 100, while Loss percentage equals ((CP - SP) / CP)...

8. Reasoning: Seating Arrangement & Puzzles
Weightage: High (5-7 Qs)

Seating Arrangements and Puzzles carry high weightage in IBPS exams. Types include Circular, Linear (North/South facing), Parallel Rows, and Floor/Box puzzles. Always identify definite statements first to draw anchor ...

9. Reasoning: Syllogism & Logical Deduction
Weightage: Medium (3-4 Qs)

Syllogisms require Venn diagram techniques or 100-50 methods to analyze deductions. Quantifiers include "All", "Some", "No", and "Some Not". Possibility cases are valid if not explicitly contradicted by given statemen...

10. English Language: Grammar & Comprehension
Weightage: High (5-6 Qs)

English Language tests Grammar rules, Error Spotting, Cloze Test, and Reading Comprehension. Core grammar covers Subject-Verb Agreement, Tenses, Modifiers, Parallelism, and Preposition usage. Rules like "Neither...nor...

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5. 10 SAMPLE EXAM-STYLE PRACTICE MCQS (WITH ANSWERS)

Q1. What is the worst-case time complexity of the QuickSort algorithm?
(A) O(n log n) (B) O(n^2) (C) O(n) (D) O(log n)
Ans: (B) | QuickSort worst-case occurs when the pivot chosen is consistently the smallest or largest element (e.g., sorted array with first element as pivot), resulting in O(n^2).

Q2. Which normal form deals with removing transitive dependencies in a database table?
(A) 1NF (B) 2NF (C) 3NF (D) BCNF
Ans: (C) | 3NF (Third Normal Form) requires that no non-prime attribute is transitively dependent on any candidate key.

Q3. In the OSI model, which layer is responsible for end-to-end communication and flow control using TCP?
(A) Network Layer (B) Data Link Layer (C) Transport Layer (D) Session Layer
Ans: (C) | The Transport Layer (Layer 4) provides end-to-end communication, error recovery, and flow control using protocols like TCP and UDP.

Q4. Which of the following deadlock conditions is prevented by requiring processes to request all resources at once?
(A) Mutual Exclusion (B) Hold and Wait (C) No Preemption (D) Circular Wait
Ans: (B) | To eliminate the Hold and Wait condition, a process must request and be allocated all its required resources before execution begins.

Q5. In Software Engineering, what is the Cyclomatic Complexity V(G) of a graph with 10 edges (E), 8 nodes (N), and 1 connected component (P)?
(A) 2 (B) 4 (C) 6 (D) 8
Ans: (B) | V(G) = E - N + 2P = 10 - 8 + 2(1) = 4.

Q6. An article with Marked Price Rs 1000 is sold after two successive discounts of 20% and 10%. Find the Selling Price.
(A) Rs 700 (B) Rs 720 (C) Rs 750 (D) Rs 800
Ans: (B) | Net Discount = 20 + 10 - (20*10)/100 = 28%. SP = 1000 * (1 - 0.28) = Rs 720.

Q7. If two items are sold at Rs 990 each, one at a gain of 10% and the other at a loss of 10%, what is the overall gain or loss percentage?
(A) 1% gain (B) 1% loss (C) No gain no loss (D) 2% loss
Ans: (B) | When SP is same and gain% = loss% = x%, overall result is always Loss% = (x/10)^2 % = (10/10)^2 = 1% loss.

Q8. Statements: All routers are switches. Some switches are hubs. Conclusion I: Some routers are hubs. Conclusion II: No router is a hub.
(A) Only Conclusion I follows (B) Only Conclusion II follows (C) Either Conclusion I or II follows (D) Neither follows
Ans: (C) | Conclusions form a complementary pair ('Some' + 'No') with same elements (routers, hubs) and both are individually uncertain (false). Hence, Either I or II follows.

Q9. Which HTTP status code indicates 'Not Found'?
(A) 200 (B) 301 (C) 404 (D) 500
Ans: (C) | HTTP 404 is a client-side error status code indicating that the requested server resource was not found.

Q10. A network CIDR representation is 192.168.1.0/26. How many usable host IP addresses are available?
(A) 64 (B) 62 (C) 32 (D) 30
Ans: (B) | Host bits = 32 - 26 = 6. Total IPs = 2^6 = 64. Usable hosts = 64 - 2 (Network & Broadcast address) = 62.

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