



Interview Questions for Engineers

Most Common MBA Interview Questions

Hi,

Welcome to the 'Interview Preparation' section for your MBA Admission process!

The contents in this section have been curated by alumni of top business schools like IIM A, C, SP Jain and SCMHRD. Few authors have been panellists for top business schools and have formal experience in taking interviews of the candidates.

The document below is a consolidation of the most common interview questions asked to engineers during the interviews and will be useful for a quick walkthrough. The document consists of generic questions as to engineers followed by technical questions asked based on each specialization. We recommend you go through these questions for greater insights. Hope these add to your preparation and help you in levelling up your game plan in the admission process!

All the best!

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Generic questions:

1. Why are you not opting for a course that is related to Engineering, say MTech?
2. You have more than 2 years of work experience. Why not appear for GMAT and pursue an MBA from another country?
3. You have around 2 years of work experience in the IT industry. Why should we choose you over someone who has relevant work experience?
4. You are already working in a banking firm. There are high chances you might be recruited by a similar firm post MBA. Why do you want to do an MBA then?
5. With 3 years of work experience in the IT industry, do you think you will be able to adapt to a Sales Role?
6. Despite no previous background in finance, why do you want to pursue Finance as your specialization?
7. You are a fresher. Why should we shortlist you over some other candidate who has pursued BCom?
8. How can you add more value than a BBA graduate?
9. You are graduating from one of the top engineering colleges in the country. Why do you not want to take up a job and use the knowledge you learnt?
10. We can see a gap in your resume. Were you not good enough to be shortlisted by any company on campus?
11. You have studied around half of your graduation online. Do you think you have garnered sufficient skills in the domain?
12. Why do you not want to gather some work experience and then come back for an MBA?
13. How do you plan to fund your MBA?
14. Calculate the opportunity cost of pursuing an MBA from our university.
15. Do you think investing 20+ lakhs for pursuing an MBA is worth it?
16. You pursued Electronics engineering and then worked in an IT firm. Now you want to do an MBA. Should I consider that you aren't sure about your goals?
17. You have a strong background in programming. Why do you not want to make a mark as a developer?
18. As a fresher, how will you add more value than a person with work experience?
19. Give me examples of leadership from your work experience.
20. Give me instances where you demonstrated your leadership skills in college.
21. You are a fresher. You can gather some work experience and come back after 1 year when the colleges start their offline classes. Why do you want to pursue an MBA now?
22. MBA after engineering? Do you think you are wasting your past education?

CSE/IT Technical questions:

1. What is a 'virus' in IT terms? Can you tell some common types of the same?
2. What is an algorithm?

3. What is the difference between a product-based company and a service-based company concerning the IT industry?
4. Write an algorithm to input two numbers and print if they are a palindrome.
5. What is the Internet?
6. What is TCP?
7. What is the difference between HTTP and HTTPS?
8. What is the World wide web?
9. Explain LAN, WAN, and MAN.
10. What is a procedural programming language? Give examples.
11. Explain calloc function in C
12. Explain malloc function in C
13. What do you mean by dynamic memory allocation for programming languages like C?
14. How is OOP different from procedural programming language?
15. What are the advantages of using OOP?
16. What is data abstraction?
17. What is encapsulation? Give examples
18. What is inheritance? What are its advantages?
19. What is polymorphism? How can it be implemented?
20. What is the difference between mean, median, and mode?
21. How many generations of computers exist?
22. What do you know about ABACUS?
23. Explain SDLC (Software Development Lifecycle)
24. What do you know about the Waterfall model?
25. How is the Agile method different from the waterfall model?
26. How is the IT industry performing currently?
27. Which are the leading IT consulting companies in India?
28. What is an Operating System?
29. What are the features of an Operating System?
30. What is a kernel?
31. Tell the characteristics of any 2 OS.
32. How is the OS used in laptops different from the one used for mobile phones?
33. What is meant by a bug in programming?
34. What is a run-time error?
35. What is a compile-time error?
36. What is a Linked list?
37. Differentiate between BFS (breadth first search) and DFS (Depth-first search).
38. Elaborate on the Traveling Salesman problem
39. What is a multiplexer?
40. What is demultiplexer?
41. What is a K-Map?
42. What is an RDMBS?

43. What is a primary key?
44. What is normalization in terms of DBMS?
45. Explain the various normal forms.
46. Explain the super key with an example.
47. Differentiate between super key and candidate key with an example
48. Elaborate on 3 recent trends in the IT sector?
49. What is COBOL? What are the reasons several companies still use it?
50. Can you explain what a Turing Machine does?
51. Write an SQL query to pull out records from a table where the marks of a candidate are greater than 50.
52. What is an Inner Join in SQL?
53. What is an Outer Join in SQL?
54. What do you know about Selection sorting?
55. Write the code for bubble sorting in any programming language you wish.
56. Explain function overloading with an example.
57. Write a program to print palindrome numbers between 50-100.
58. Write a program to print prime numbers in the reverse order starting from 100. (Run a loop from 100 to 1)
59. What is a router?
60. What are the OSI layers and their functions?
61. What is a subnet mask?
62. What is a Bit and a Byte?
63. Explain cloud computing
64. What is a friend function in C++?
65. What are static variables and global variables?
66. What is the scope of a variable?
67. Explain the advantages of using Python
68. What is a list in Python?
69. What is a tuple in Python?
70. What is linear programming?
71. What is IPv4 and IPv6?
72. How is UNIX different from Windows?
73. What do you mean by embedded software?
74. What is IoT?
75. Elaborate on Industry 4.0
76. What is software testing?
77. Differentiate between black-box testing and white-box testing
78. What is a prototype?
79. How do you carry out decimal to binary conversion?
80. Differentiate between the '=' and '==' operators.
81. What are pointers in C?

82. What are the types of IP classes?

Electronics and communication Technical questions:

1. What is Electronic?
2. What is communication?
3. Different types of communications? Explain.
4. What is sampling?
5. State sampling theorem.
6. What is the cut-off frequency?
7. What is a passband?
8. What is a stop band?
9. Explain RF?
10. What is modulation? And where it is utilized?
11. What is demodulation?
12. Name the modulation techniques.
13. Explain AM and FM.
14. Where do we use AM and FM?
15. What is a base station?
16. How many satellites are required to cover the earth?
17. What is a repeater?
18. What is an Amplifier?
19. Example for negative feedback and positive feedback?
20. What is Oscillator?
21. What is an Integrated Circuit?
22. What is crosstalk?
23. What is a resistor?
24. What is an inductor?
25. What is a conductor?
26. What is a semi conductor?
27. What is a diode?
28. What is a transistor?
29. What is op-amp?
30. What is feedback?
31. Advantages of negative feedback over positive feedback.
32. What is Barkhausen criteria?
33. What is CDMA, TDMA, FDMA?
34. explain different types of feedback
35. What are the main divisions of the power system?
36. What is an
37. Instrumentation Amplifier (IA) and what are all the advantages?

38. What is meant by impedance diagram.
39. What is the need for load flow study.
40. What is the need for base values?
41. Define Communication?
42. Explain diode?
43. Explain sampling?
44. Tell me the principle of the microwave?
45. What do you mean by passband?
46. Explain Power Rating?
47. Define demodulation?
48. What do you mean by the resistor?
49. What do you mean by inductor?
50. Tell me the modulation techniques?
51. Define RF?
52. Where do we use AM and FM?
53. What do you mean by the base station?
54. What do you mean by repeater?
55. What do you mean by Amplifier?
56. Define Oscillator?
57. Define crosstalk?
58. Explain Bluetooth?
59. What do you mean by feedback?
60. Tell me the main division of the power system?
61. Explain the concept of frequency re-use?
62. How many satellites are required to cover the earth?
63. What do you mean by semiconductor?
64. What are active and passive components?
65. Define SCR?
66. Define CAM?
67. Tell me the two forms of Boolean expressions?
68. What do you mean by Maxterm and Minterm?
69. What are the characteristics of Digital ICs?
70. State the difference between flip-flop and latch?
71. What is a Digital system?
72. Tell me the definition of the Duality theorem?
73. How will you execute a full subtractor from a full adder?
74. Define edge triggered flip flop?
75. Define power dissipation?
76. What is rise time?
77. Explain the setup time?
78. State the difference between D- latch and D- flip – flop?

79. Define Hold time?
80. Define fall time?
81. Why are most interrupts active low?
82. Name the applications of Buffer?
83. What are the applications of demultiplexer?
84. Define Full- Adder?
85. What do you mean by Multiplexer?
86. Define the binary number system?
87. What are the logic gates & types?
88. What is a PN junction?
89. Why is silicon preferred over germanium in the manufacture of semiconductor devices?
90. What does the arrowhead represent in the schematic symbol of a p-n junction?
91. What are the two mechanisms of breakdown in a p-n junction?
92. Name the breakdown mechanism in a lightly doped p-n junction under reverse biased conditions.
93. Name the breakdown mechanism in a highly doped p-n junction under reverse biased conditions.
94. What is an ideal diode?
95. What is reverse saturation current?
96. Is the reverse saturation current of a diode being independent of reverse bias voltage?
97. Why is germanium more temperature dependant than silicon?
98. What is the effect of temperature on the reverse saturation current of a diode?
99. What is the static resistance of a diode?
100. Define dynamic resistance of a p-n junction diode in forwarding biased conditions.

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Mechanical Engineering Technical questions:

1. What is mechanical engineering?
2. Elaborate on Diesel Cycle and Carnot Cycle
3. What do you know about fluid mechanics?
4. Distinguish between centrifugal and centripetal force.
5. How can you polish a ball-bearing?
6. What is the refrigeration cycle?
7. What is Poisson's ratio? Can it be negative?
8. What do you mean by a bending moment?
9. What is Hook's law?
10. Will an engine having more value have more power as well?
11. What is Six Sigma?
12. What are the differentiating points of one gearbox from another?
13. What is the Magnus effect?
14. State the law of thermodynamics

15. Give an example of the application of thermodynamics
16. What are Newton's Laws of Motion?
17. Explain the working of diesel and a petrol engine
18. Elaborate on the vapour compression cycle
19. Why is a spark plug not required in a CI engine?
20. Differentiate between 4 stroke engines and 2 stroke engines
21. What is the triple point of water?
22. How many different types of gears are there?
23. What are SI engines? How are they different from CI engines?
24. What are heat exchangers?
25. What is Pascal's Law?
26. What are IC engines?
27. What is Kinematics in Mechanics?
28. Write down the equations of laws of Thermodynamics
29. Tell me the common specifications for an automobile
30. What is a black body?
31. What is the Plank's constant?
32. How is Torque different from Horse Power
33. Tell me about your favourite subject.
34. What is SAE?
35. Explain the lubrication system in IC engines?
36. What is Mach number and where is it used?
37. Which gear allows you to obtain a maximum speed ratio?
38. What is an isothermic reaction?
39. What is the adiabatic reaction?
40. What is a Turing machine?
41. What will happen if you use petrol in a diesel engine?
42. What is a K-series engine?
43. What is annealing?
44. What is a plant load factor?
45. Differentiate between whirling speed and critical speed
46. What is the Magnus effect?
47. Elaborate Bernoulli's theorem.
48. What is mechatronics?
49. What is EGR value?
50. Explain cavitation
51. What is a water hammer?
52. Explain the functions of cooling fluids.
53. Give a detailed explanation of Euler's theory.
54. What is the difference between a planner and a shaper?
55. Explain what is SCADA, HMI, and DCS.

56. What is a V-Tec engine?
57. What forces act on an object when you throw it in the air?
58. Differentiate between a fuel injector and a carburettor
59. Explain refraction, dispersion, and total internal reflection
60. Why are governors used in automobiles?

Electrical Engineering Technical questions:

1. How do you measure resistance?
2. Explain the difference between the neutral and earth wires
3. Convert 5 milliamperes into microamperes.
4. Write the equation for a parabola graph. Draw a graph for x^2 and x^3
5. What is the Fourier series?
6. What is the Laplace Transform?
7. How does a transformer work?
8. Differentiate between an analogue signal and a digital signal.
9. What is an Eddy current?
10. What is an arc formation?
11. Elaborate on what is a bush bar.
12. What is the skin effect?
13. Why is a motor used in a generator and a motor?
14. What are the different topologies in networking? Which one do you think is the best?
15. Explain what an IMDT relay is?
16. Where will you place a lightning arrestor in the distribution lines?
17. Are transmission lines in delta or star?
18. Draw and explain the working of a Wheatstone bridge.
19. How will you convert sound into a digital signal?
20. What is an auto-transformer? Ex
21. Explain the working of an auto-transformer and write the equations for the same?
22. Give some suggestions to reduce power theft.
23. What are the major causes of power theft in India?
24. What is a 3-phase supply?
25. What is regenerative braking?
26. What is an MCB and where is it used?
27. What is an MCCB? Explain.
28. Why can you not start a series motor on no-load?
29. How does a tester work?
30. How does a cache memory work?
31. Why is there a sag in transmission lines?
32. Why are waves sinusoidal
33. What is a page hit?

34. Is circuit switching analog?
35. What are asymptotes
36. Elaborate on what is SEADA.
37. What is the difference between a circuit breaker and an isolator?
38. What is regenerative braking?
39. State Norton's theorem.
40. What are Kirchoff's Laws?
41. Explain the working of a transformer.
42. How does a ceiling fan?
43. How does a free-wheeling diode?
44. How can you reduce the harmonics of a waveform?
45. What is an oscillator?
46. What do you mean by current chopping?
47. Draw a circuit diagram for car wipers
48. Differentiate between AM and FM.
49. What is an Alternator?
50. What are storage batteries?
51. Highlight the importance of back emf in a DC Motor.
52. Explain the working principle of the motor.

Electronics Engineer Technical questions:

1. What is a Neural Network? Explain.
2. What is a low pass and high pass filter?
3. What is a flip flop?
4. What are the different flip flops you know?
5. How does a J-K flip flop work?
6. Explain the working of a master-slave flip flop.
7. What is a transistor? Explain its working.
8. What is modulation?
9. What is a totem pole?
10. What are avalanche diodes and antennas?
11. What is a PNP transistor?
12. How is an NPN transistor different from a PNP transistor?
13. What is a microprocessor?
14. Draw the circuit of an 8085 microprocessor.
15. How are flip flops different from latches?
16. Explain the bandwidth of an FM.
17. What is CMOS?
18. Elaborate on what you know about VLAN?
19. What is WAP and Bluetooth?

20. Give an example of a controlled feedback system.
21. What is VLSI?
22. Explain the use of a microcontroller?
23. What are i5 and i7 processors?
24. What is a Y connection?
25. Explain the working voltage conditions of an LED?
26. What is CDMA. How does it work?
27. What protocol does mobile communication follow?

Civil Engineering Technical questions:

1. What do you know about Kanban?
2. What is Civil Engineering?
3. What is a stress-strain curve of mild steel?
4. What is Six Sigma process capability?
5. Explain batching.
6. What is Gemba Kaizen?
7. Differentiate between CPM and PERT
8. Elaborate on EOQ.
9. What will be the foundation you will adopt for marshy soils?
10. Why are bricks red in colour?
11. Elaborate on the functioning of cable-suspended bridges
12. What are your favourite subjects?
13. Have you worked on AutoCAD or Matlab?
14. What is a hydraulic pump?
15. What is camber?
16. How does fluid flow work?
17. Elaborate more on tensile strength.
18. Differentiate between production and manufacturing.
19. Where will you use CPM or PERT?
20. How do you feel the real estate sector is performing?
21. What do you know about Reynold's number?
22. What is a hydraulic jump?
23. What do you mean by heavy water?
24. What is a power grid? How does it work?
25. Explain shearing force.
26. Draw and explain the cross-section of rail.
27. As a civil engineer, what kind of foundations do you use for flyovers?
28. Explain bending moment.
29. What are the support conditions of a cantilever?

30. What do you know about a theodolite?
31. How will you level a theodolite?
32. Give examples of some high fatigue-resistant materials.
33. Give examples of some low fatigue-resistant materials.
34. Differentiate between 4-stroke and 2 strokes.
35. What qualities does steel for rails need to possess?
36. How can you develop earthquake-resistant structures?
37. Why are plate girders required in a railway bridge?
38. Explain pipping failure.
39. What is IRC?
40. Tell me something more about IRC Road specifications.
41. What is the use of a free-body diagram?
42. Differentiate between a pump and a turbine.

Chemical engineering technical questions:

1. What do you mean by valency?
2. What is the manufacturing process of steel?
3. Differentiate between unit process and unit operation.
4. What do you know about nanotechnology?
5. Elaborate on what is a Deacon Reaction.
6. What is thermodynamics?
7. What do you mean by heat transfer?
8. What is the Lynch Theory?
9. What are CFCs and where are they used?
10. What do you need to keep in mind while selecting a dry screw compressor?
11. What is a chemical bomb?
12. What is osmosis?
13. What do you know about a cement kiln?
14. Have you heard about flaring? What is it?
15. Explain surface tension with an example.
16. Elaborate what you know about viscosity.
17. Name a few poisonous and toxic gases.
18. Tell us a few properties of Teflon
19. Write down the conservation equation.
20. What can be a reason for failure for above ground atmospheric storage tanks?
21. What is diffusion?
22. How can you store ammonia?
23. What is electrolysis?

24. What is entropy?
25. How can we measure entropy?
26. Give examples of synthetic polymers
27. What is an elastomer. Give examples.
28. What factors can impact the flow of bulk solids?
29. Why does mercury not wet the glass?
30. Explain the Import Procurement cycle.

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Day	Topic	Time
Monday	Marketing Mondays	9 to 10 pm
Tuesday	Current Affair Industry Insights (GD/WAT)	9 to 10 pm
Wednesday	How to Crack Case Study / SOP	9 to 10 pm
Thursday	How to Crack Interviews with Rahul Sir	9 to 10 pm
Friday	Finance Fridays	9 to 10 pm
Saturday	Personal Interview Must Do Questions with Rahul Sir	9 to 10 pm
Sunday	Concept Builders: GD / WAT	9 to 10 pm

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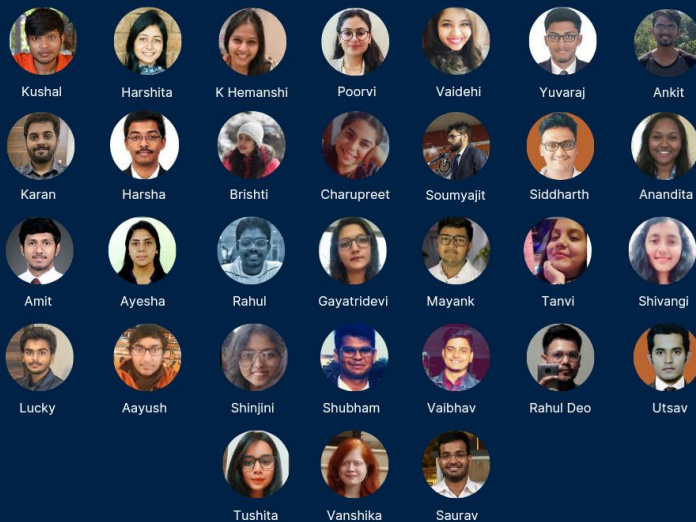


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31 students in FMS



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30 students in MICA



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72 students in MDI Gurgaon



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26 students in SPJain Mumbai



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CATKing Results 2020-21*

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200+ students in NMIMS Mumbai



& many more..

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