

Sample Interview Questions: Engineering

Electronics & Communication

- 1: What is the present cabling used in Ethernet? and present days networks? And what is the mostly used topology now a days?
- 2: Difference between cache and flip flop.
- 3: What is plc? and how many types used in industrial field?
- 4: How many memory locations can be addressed by a microprocessor with 14 address lines?
- 5: Which type of architecture 8085 has?
- 6: Why crystal frequency is different in microcontrollers and crystal oscillators?
- 7: How to interface PC and 8051 microcontroller using Bluetooth.
- 8: When does transistor has power dissipation?
- 9: Explain half-duplex and full-duplex communication?
- 10: What tools are used to test TCP/IP?
- 11: Different types of Channels in GSM and their Function.
- 12: What is GPS & GPRS?
- 13: Features of GSM Technology and CDMA technology.
- 14: Explain FM and FSK modulation?
- 15: Explain conductor, insulators & semi conductors?
- 16: Difference between noise and distortion?
- 17: What is the need for modulation?
- 18: What is meant by q factor of inductor?
- 19: Why the microcontroller so called 8051? and why the IC starts with 74?
- 20: Advantages & disadvantages between analogue & digital communications?

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- 21: What is modem?
- 22: Explain parallel & serial communication?
- 23: Why the shape of OP-AMP is triangular not other shape?
- 24: Why the input impedance of OP-Amp is so high?
- 25: Difference between drift current and diffusion current.
- 26: What are different types of routing protocols?
- 27: What is race around condition?
- 28: Difference between TCP and UDP.
- 29: Explain Edge technology?
- 30: Why do we use FM for sound and AM for video in TV transmission?

Electrical Engineering

- 31: What is meant by armature reaction & where it's happen?
- 32: What is meant by Active and reactive power?
- 33: How to calculate D.C load current?
- 34: What are star & delta connection?
- 35: What are the types of transmission lines?
- 36: Explain circuit breaker?
- 37: What is the meaning of GRID?
- 38: Why voltage drop will occurs in 3 phase line?
- 39: Give main differences between ELCB and RCCB?
- 40: How power saving takes place through VFD?
- 41: What do you mean by linear and bilateral network?
- 42: What is the meaning of rms value?

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- 43: What is isolation Transformer?
- 44: How snubber circuit works to protect switching devices?
- 45: What is the difference between AC choke (inductor) and DC choke (inductor), working and design point of view?
- 46: Difference between neutral and earth wire.
- 47: Who invented electricity?
- 48: What is phase to phase voltage?
- 49: What is line to line voltage?
- 50: What happens when ac supply is given to D.C motor?
- 51: What do u mean by knee point voltage?
- 52: Difference between diode and capacitor.
- 53: What is the difference between phase current & line current, how both can be measured in star and delta system?
- 54: What is an electric arc?
- 55: What is the use of power factor? Where it's applicable?
- 56: Why the motor running in delta connection? It can be in star?
- 57: What is the negative slip region in the motor?
- 58: What is the purpose of stabilizer?
- 59: What is the use of earthing?
- 60: If we use fuse in neutral what will happen?
- 61: When neutral will carry the current? What could be the magnitude?
- 62: How to calculate optimum loading for transformer?
- 63: Why HT cables have only 3 cores?
- 64: What are the different parts of Alternator and how it works?

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- 65: Explain how current transformer works.
- 66: Difference between ac and dc motor.
- 67: Difference between DOL Starter and Star Delta starter.

Civil Engineering

- 68: What is the field test of cement, aggregate and water?
- 69: What is meant by structural design?
- 70: What is mean by shear resistance in concrete?
- 71: Difference between design mix and nominal mix?
- 72: How we calculate the actual diameter of the TMT Steel.
- 73: How to calculate bearing capacity of soil?
- 74: What is the acceptable percentage of slump in Mix concrete?
- 75: What is the purpose of laying PCC?
- 76: M20 Grade ratio? M30 Grade ratio? M40 Grade ratio?
- 77: Which concrete grade has highest strength and what is its composition?
- 78: What is pile foundation?
- 79: What are the CAD software versions you have used?
- 80: What is meant by super structure?
- 81: Why we do design mix of concrete when there is nominal method using the IS-Code available?
- 82: Grades of concrete?
- 83: How we decide the load combinations for design of RCC structures?
- 84: What is plate load test?
- 85: What is mix design?

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- 86: What is CBR Test?
- 87: What is general scouring?
- 88: What are the dimensions of 1) Standard Brick 2) Nominal Brick what is the difference between them in terms of use?
- 89: What is gauge and gage?
- 90: What is the basic difference between a singly reinforce section & a doubly reinforce section?

Mechanical Engineering

- 91: What is a four stroke engine?
- 92: Which one is more efficient? a four stroke engine or a two stroke and why?
- 93: How can you calculate angle of bite practically?
- 94: What are the various machining processes?
- 95: What is the function of Clapper box in a shaper?
- 96: Bullet proof glass is made up of which material?
- 97: Difference between impulse and reaction turbines?
- 98: What is the cause of major loss in efficiency of an IC engine?
- 99: What is meant by boiler?
- 100: What is carburetor?
- 101: What motor do they use in railway engines for traction?
- 102: State the laws of Thermo dynamics.
- 103: Why do most of the vehicles have disc brake only in the front axle?
- 104: What is the practical difference Speed and Torque?
- 105: What happen if we pour petrol in diesel engine and vice versa? Explain
- 106: What is stagnation property? What are its assumptions?

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- 107: Which material is used for propeller shaft? Why?
- 108: What is Petrol Calorific Value?
- 109: What is hybrid vehicle? Where it is being used? How is it beneficial over the ordinary Vehicle?
- 110: Why is the rear wheel of tractor larger than its front wheel?
- 111: What is the function of jokey pump?
- 112: Explain what is Resilience?
- 113: Under which mechanism does Hover Craft work?
- 114: Explain Torsion- Shafts?
- 115: What is the procedure of I.C. engine testing?
- 116: Explain in detail about pneumatic engine.
- 117: What is a stroke? What is the unit of stroke?
- 118: What is DTSi technology?

Chemical Engineering

- 119: Are you having any experience in antibody designing?
- 120: Explain various protein purification techniques?
- 121: What steps can be taken to avoid stress corrosion cracking (SCC) in steel vessels used for storing anhydrous ammonia?
- 122: Why is post-weld heat treatment sometimes necessary for welded vessels?
- 123: What does the catalytic converter on an automobile do?
- 124: What is the reason for removing silicon from aluminum?
- 125: What are the main terms in Unit Operations? and what are its characteristics?
- 126: Explain the Deacon reaction?

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127: What is Pinch Technology?

128: What are the affinity laws associated with dynamics pumps?

129: Difference between overall heat transfer coefficient & individual heat transfer coefficient

130: What are the precautions taken while starting HT motors?

131: How can we measure entropy?

132: What is the meaning of flaring?

133: What is the Import Procurement Cycle? and what are the customization steps in SAP?