E-Con System interview preparation

Note: all the questions are taken from the internet. You need to prepare lot to crack this interview. This questions are taken from https://www.glassdoor.co.in/Interview/e-con-Systems-Interview-Questions-E414575.htm

Hardware Question

1) Voltage regulator design

2) they'll ask questions regarding electronic devices like diode, FET, zener diode, BJT etc.

3) Find the number of address lines in 4K RAM?

4) design a circuit which can detect the direction of motion of a wheel

5) the resistance of a material. is 10kohm at 25deg c and temperature coefficient of resistance is -0.04 .. resistance @ 100 deg c is??

6) a circuit given for zener voltage regulator..u will be asked to find the load current and the resistance r which is connected in series with the zener diode

7) in microprocessor 8085 ,the rom of 4 different sizes will be given ..u will be asked to choose the size that will cover the full address space of 8085 and other question is starting address given of the rom for which u have to find the last address.

8) jk flip-flops, minimum of 2 input gates required for y some expression and rectifier questions and value of r2 in voltage divider bias and mesh and loop analysis questions

9)what is voltage and current? They were expecting exact definition with real time example

10)what is resistor why we use that

11)property of inductor and capacitor

12)tell about your project(it should be in detail)

13)what is rectifier

14)draw and explain full wave rectifier

15)how to reduce the ripple content in full wave rectifier.

.16) audio amplifier power is 12w when connecting 12ohms loud speaker. Now I replace the 4ohm loudspeaker instead of 12ohm now what will be the power of audio amplifier.

17) some of circuit solving questions are there I will send later.

18) what Is D flipflop and write a truth table along with draw internal logic gate diagram.

19) Is capacitor allows dc if yes why.

20) Take 1k resistor and 0.1uf capacitor are connected in series and it is connected to 5v source now how much time required for capcitor gets fully charged. Note:capacitor voltage is also 5v

21) when 5v battery is connected to 12v capacitor how much amount of voltage is stored in the capacitor. Whether it is 5v or 12v. With reason.

22) what Is diode

23) tell types of diode

24) differnce between normal diode and zener diode

25) draw any dc circuit diagram with inductor and give explanation.

26) capacitor charging curve is exponential or linear. With reason