Technical Questions asked in previous year question paper of AAI Junior Executive(JE) Electronics Posts:

1) .Questions are asked on Micro controller pins

Study 8051 architecture and the Functions Of its Pins.

2). Function Of RAM?

Random Access Memory(RAM) is used to perform multi-tasking in our computers. Data from the programmes which are running is stored in RAM to make easy access for the computer's processor thus reducing the loading time of the Programmes which you are running in your computer.

3) Simple Problems on Logic Gates and RLC networks?

4) Hall Effect is used to measure

a. Electric Field

b. Magnetic Field

c. Current Field

d. Electro Magnetism

Ans: Magnetic Field

5) BCD value of 001100100001?

0011 0010 0001 -

       0001 →1

       0010 →2

     0100 →4

     1000 →8

     0011 → 1 + 2 = 3

       0010 →2

       0001 → 1

    Answer is   321

6) The Radiation Pattern of Yagi - Uda antenna?

    Antennas are nothing but conductors that are used for mobile communications and other

applications. Yagi-Uda antenna also called as Beam antenna. The Radiation pattern of Yagi-guda antenna is Oni Directional. Omni-Directional antennas are common in mobile receivers and base stations

7) NMOS Transistor – 2 Questions

8)What is a Combinational Circuit?

Combinational circuit is defined as a circuit in which different gates are combined in the circuit like encoder, decoder, multiplexer and demultiplexer.
a)With memory
b)With out memory
c)Constructed with logic gates
d) both b & c

9) What is the value of Threshold voltage?

 10)What is the function of Magnetron?

Magnetron is a high-power vacuum tube which contains crossed electron and magnetic fields in order to produce high-power output which is required in radar equipment.

11) TRAP is an Example of non maskable interrupt?

a.**Non maskable Interrup**
b .Maskable Interrupt
c. Control Bus
d. Address Bus

Ans: Non –maskable Interrupt

12) Wheatstone bridge - 1 question?

13) ROM is a

a. Temporary Storage
b. Permanent Storage
c. Processor

d. Controller

Ans: Permanent Storage

14)Which Filter is used for Extracting sine signal of 1mhz?

Lock-in amplifier is a technique used to measure AC signals partially or completely by performing a modified fast-Fourier transform(FFT) on the input signal .