ELECTRONICS & COMMUNICATION ENGINEERING

1) What is Electronics?
2) What is the difference between Electronics and Electrical?
3) Difference between Analog & Digital communications? Explain.
4) How many satellites are required to cover the earth?
5) What is communication?
6) What are GPRS services?
7) Define VoLTE.
8) Drawbacks of LTE over VoLTE.
9) Difference between 4G & 5G.
10) Difference Between CDMA And GSM
11) Explain Bluetooth.
12) Mention the Ranges of IR, Bluetooth, WI-Fi, Mobile Hotspot.
13) What is a semi conductor?
14) Why we are using Arsenic & Germanium in Semi Conductor?
15) The potential barrier of a silicon diode is.
16) The size comparison between Base, Emitter and Collector is.
17) The majority carriers in NPN and PNP Transistors are.
18) What do you mean by zener breakdown and avalanche breakdown?
19) What is diode?
20) What is transistor?
21) What is MOSFET & JFET?
22) What is rheostat?
23) What is modulation & demodulation?
24) What is resistor?
25) What is inductor?
26) What is Capacitor? Why the capacitor works on ac only?
27) What is an Amplifier?
28) What is op-amp?
29) What is a repeater?
30) What is a feedback?
31) What is a Clipper?
32) What is a Clamper?
33) Define AND, OR, NOT gate.
34) Why NAND & NOR gates are known as Universal Gates?
35) What Is A Transducer And Transponder?
36) What is an Integrated Circuit?
37) What is Flip Flop? Explain different types of feedback.
38) Advantages of negative feedback over positive feedback.
39) What is Barkhausen criteria?
40) How can you convert a JK Flip-flop to a D Flip-flop?
41) What is the basic difference between Latches and Flip flops?
42) What do you mean by half-duplex and full-duplex communication? Explain briefly.

43) What is K-Map?

44) What is Oscillator?

45) What is a multiplexer?

46) What is sampling?

47) What is Filter? Mention its types.

48) What is Butterworth filter?

49) What is Chebyshev filter?

50) State sampling theorem.

51) What is the principle of microwave?

52) What is cut-off frequency?

53) What Is Attenuation?

54) What is pass band?

55) What is stop band?

56) Define Power Rating?

57) Name the modulation techniques.

58) Explain AM and FM.

59) What is a base station?

60) What are the functions of Base Station System (BSS)?

61) What Do You Mean By Nyquist Rate?

62) What are different categories of antenna and give an example of each?

63) Difference between Resonant and Non-Resonant Antenna.

64) Difference between Narrow Band and Wide Band Antenna.

65) What is Radian & Steradian?

66) What is handover and what are its types?

67) What is latch up?

68) What is a repeater?

69) What is impulse response?

70) What is crosstalk?

71) What are CDMA, TDMA, and FDMA?

72) What is Pulse Amplitude Modulation?

73) What is Pulse Position Modulation?

74) What is Pulse Width Modulation?

75) What is Instrumentation Amplifier (IA) and what are all the advantages?

76) What are applications of Digital Signal Processing?

77) What is Control System? What are different types of Control Systems?

78) What is the difference between isolators and electrical circuit breakers?

79) What are the transformer losses?

80) Difference between UPS & inverter.