ONGC Domain (electronics) Frequently Asked question :

1.k-map equation related proved that .

2. Design of a analog circuit which have output as V=∫V1dt+ ∫V2dt+∫V3dt

Domain questions :

1.aspect ratio in TV is width to height.

2. Adsl download rate is high compare to upload.

3.110 is class C in IP address.

4. if sun near to earth it is called ?

5.what is indicted the arrow head in transistor ?

6. if 100 battery of 9 volt is connect in parallel the what is output voltage ?

7.question related to satellite orbit

8.pcm,dm.dpcm technique

9.thyresistor

10. Carrier SYNCHRONIZATION not needed in QPSK,PSK,FSK?

11.CRO AND SCR

12.LIJJAJOUS pattern

13.laser is produce white light due to ?

14.wein bridge is use to measure of frequency.

15.radar system is using multiple of 16 then what is the multiplier

a)2 b)4 c)8 d)16

16.x= ab +bc is having how many how's in the truth table?

17.1 nepar=_ db

18. resolution of 6 bit is ?

19. Find correct parity as odd parity : Rightmost bit as parity bit : 1111111 1 , 0011010 1 , 1100110 1 , 0000000 0.

20. slew rate

21. fetch cycle

22. voltmeter sensitivity is measure in ?

23. microcontroller is having?

24. pointer

25. tunnel diode

26. BCD to binary converter

27. baud rate and bit rate which is grater ?

28. ideal op amp is having _i/p , _o/p , _bandwidth ?

29. IC 555 timer is having how many flip flop and comparator

31. Modulation index increased from 0 to 1 . Transmitted power now ?

32. De-emphasis is used because

33. Voltage gain of emitter follower : <=1 , =1 , >=1 , cannot say

34. CRO uses which method of focusing

35. Positive Feedback is same as : degeneration , regeneration

36. Lowest Efficiency in Power AMPLIFIER IS CLASS A , B , AB , C ?

37. 2 heater 1000W, 250V connected in series in 250V , 50HZ AC mains. Power drawn =?

38. HTTP = stateful/stateless protocol ?

39. which Layer responsible for delivery of packet from node to node ?

40. Difference between controlled variable and desired value of process control system

41. Why differentiator is not part of control system : Increases input noise , increases error , reduces gain, reduces damping

42 Which is analog : DCM , DM , DPCM , PWM

43. Identical Telephone no. under different exchanges are distinguished by : Modulation indices , language digit , access digit , area code

44. Common ckt in Freq Hopp Spread Spectrum and Direct Seq Spread Spectrum : correlator , Freq Synthesizer , Sweep Generator , Pseudo Random Noise Code Generator

45. Minimum Bwto transmit 56 kbps with no noise ?

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47. f = 10 kHz sampled at Nyquist rate time int B/W 2 success samples ?

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49. Dynamic memory cell store data in : register , capacitor

50. +0.5 V in TTL logic is : high , low , undefined , high impedance

51. 5th clock of johnson counter gives o/p = 0111 , 6th clock gives o/p = ?

52. Volts / div on CRO changes : gain in vertical / sec , : gain in horizontal / sec , freq of timebase , freq of trigger

53. . Measurement of Q is based on principle of : Resonance , Mutual Inductance , Piezoelectric Effect , Peltier Effect

54. Laser light is brighter because : Pure , Coherent , White , Monochromatic

55 Centre tapped transformer in single phase cycloconeuses : 2 , 4 , 6 , 8 SCR

56. . Maximum height of satellite : Apogee , Perigee

57. Satellite stays in orbit because : Satellite wt. + speed , gravitational pull + inertia , centripetal force +speed , satellite wt +pull of sun and moon

58. FET depends on controlling current through SC change : 1 polarity , 2 polarity , 4 , 8 polarity

59. Beta : Current gain in CC Mode , Current gain in CE Mode, Voltage gain in CC Mode, , Voltage gain in CE Mode

60. Flash Analog To Digital of each comparator is connected to : decoder , priority encoder , MUX , Demux

61. To serially shift a nibble of data in shift register there must be clock pulses : 2 , 4 , 8 , 1 clock pulse for each data

62. Mod 10 counter uses Flip flop : 10 , 4 , 2 , 8

63. Which family IC have better noise immunity : TTL , ECL , CMOS , DTL

64. Address required for 4096 bit memory arranged in 512 X 8 memory

65. When 8 bits serial in / out shift reg. I sused for 20 (mew)sec time delay. Find clock frequency

66. Conversion time of 6 bit successive approximation type ADC : 32 , 64 , 6 , 1/6 usec

67. Fibre optic cable best for high speed data transfer : single mode step index , multiple mode step index , single mode graded index , multiple mode graded index

68. Microcontroller includes : CPU + Memory + I/O + Clock Generator , CPU + Memory + I/O , CPU + I/O

69. Flag to manipulate movement of string : parity , zero , direction , inter

70. . Microwave signal propagates by way of : direct , surface , sky , standing wave

71. Makes equivalent current generator in circuit analysis : Norton , Thevenin , Maxm. Power Transfer , Superposition

72. When HPF and LPF section are connected in // it as Band reject filter with : fl > fh , fl = fh , fl < fh

73. When peak transmitted power of a radar is increased by a factor of 16 , maxm range increases by a factor : 2 , 4, 8, 16