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what is zeroth law ?
why should we place 9KV lightning arrestors in 11 KV substation ?

How to calculate \% Impedence?
what is meant by dielectirc medium? what is the dielectirc value of air and water???
what is DAR test?
what is the value of prandtl no. for air?

1) Moore model of DFF?
2) Which of the following filter has steep roll-off characteristics?
(A) Butterworth filter (B) Chebyshev filter
(C) Bessel filter (D)-
ans: B
3) The architecture of DSP processor-——
(A)Havard (B) Von neumann (C)...(D)..
ans: A
4) If the input frequency to a 6 stage ripple counter is 1000 MHz then output frequency at 6th stage $\qquad$

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5) Minimum number of 2 input NAND gates required to realise the fn . $A B^{\prime}+\mathrm{CD}^{\prime}+E F^{\prime}$ ans: 6
6) What will exit() fn. in C will do?
7) goto command in C will cause the program to jump to-ans: Label
8) VSWR is given then asked to find out reflection coefficient
9) The relation between power in FM signal and modulation index---
10) If two signals are AM modulated with modulation indices of 0.3 and 0.4 what will be the modulation index of combined signal?
ans: Calculate using $1 / \mathrm{M}=(1 / \mathrm{m} 1)+(1 / \mathrm{m} 2)$
11) If $n$ stage pipelining is used in aprocessor, then what will be the speed improvement over nonpipelined processor?
(A) same (B) $n$ (C) $n$ ! (D) $2 n$
12) One circuit is given (That was a Voltage Doubler using op-amp) and asked to Identify that..
13) Which one of the following memory has fastest write time?
(A) Flash
(B) EEPROM
(C) EPROM
(D) None of these

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14) In EEPROM data is stored in $\qquad$
(A) Cross coupled Latch (B) Capacitor (C) floating gate transistor (D)-
15) Which technology is faster?
(A)Bipolar (B) MOS (C) CMOS (D) ..
16) Memory access time, cache access time, hit ratio are given, Asked to find out Average memory access time
17) If the probability of getting a job for $A$ is $1 / 3$ and the probability of getting a job for $B$ is $1 / 4$ then the probability of getting a job for $A$ or $B$ will be $\qquad$ ?
18) One transfer fn As4 $+B s 3+C s 2+D=0$ (I dont remember the values of $A, B, C, D$ ) is given, Asked to find out whether the system is $\qquad$
(A) Stable (B) Unstable (C) Marginally Stable
19) For implementing $D$ flipflop using RS flip flop, the extra component needed is $\qquad$
(A) AND gate (B) OR gate (C) NOT gate (D) NOR gate
20) The output of an 8 bit DAC is 1 Volt when the input is 00110010 , then the full scale output of the same DAC will be $\qquad$
ans: 5.1 V (Hint: $1 / 50 * 255$ )
21) Fastest ADC is $\qquad$

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(A) SAR (B) sigma- delta (C) flash (D)...
22) The operating point of Class-B amplifier will be at $\qquad$
(A) exactly at cut-off region (B) inside saturation region (C) inside cut-off region (D) middle of active region
23) For an $N$ bit ADC , the number of comparators needed $\qquad$
(A) N (B) 2 N (C) $2 \mathrm{~N}-1$ (D) $2 \mathrm{~N}-1$
24) De-emphasis circuit is used for $\qquad$
ans: Attenuating high frequency components
25) The laplace transform of $e-2 t$ $\qquad$
Ans: $1 /(\mathrm{s}+2)$
26) The magnitude of $1+\cos x+j \sin x$ $\qquad$
Ans: $2 \cos (x / 2)$
27) A circuit is given in which the capacitor (1uF) is initially charged to 12 V , At $\mathrm{t}=$ 0 , one switch is closed so that another capacitor of capacity 1.5 uF comes in parallel with the first capacitor, then in steady state what will be the voltage across them? ( Visualize the circuit, as I can not draw the circuit since the editor is not supporting it)
28) Alpha of a transistor=0.99, $\mathrm{Ico}=1 \mathrm{uA}, \mathrm{Ie}=1 \mathrm{~mA}, \mathrm{Ic}=$ ?

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29) If the input given to an inductor is delta(t) (ie: $=1$ when $\mathrm{t}=0$ and ,=0 otherwise) then the current will be $\qquad$
(A) infinity (B) -infinity (C) 1 (D) 0
30) For implementing Band pass filter using High pass filter(Cutt off freq=Fh) and Low pass filter (cutt off freq= FI) $\qquad$
(A) $\mathrm{Fh}=\mathrm{Fl}$
(B) $\mathrm{Fh}>\mathrm{Fl}$
(C) Fh<F1 (D)..

1. Tell me any one of the life cycle model
2.Give details of the phases in the life cycle model
3.What is cost estimation,Tell me any one. I discussed about COCOMO model while he asked about this model

They asked the formula which is related to the cost estimation.
4. What is verification and validation etc.

1. If sampling frequency doubles then
a) Quantization noise decreases
b) Quantization density decreases
c) Quantization noise increases
d) Quantization density increases

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2. Two signals of 2 GHz and 4 GHz are frequency modulated on same carrier 10 GHz . Find the ratio of frequency deviation if band widths of both are equal.
a) $1: 2$ b)2:1 c) $1: 1$ d) $1: 4$
3. Gray code of 111 is
4. $3 \times 512+7 \times 64+5 X 8+3$ then value in binary form contains $\qquad$ number of 1 's.
a) 7 b) 6 c) 9 d) none
5. The 2's compliment of decimal number 19 in 8 -bit system is
a) 11101101
6) The high gain codes are
a) Turbo codes b) BCH codes c) R-S codes
7) BCH codes are of the type $\qquad$
a) Convolutional type b) c)
8) Time constant of LC circuit is

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a) $L / R$ b) $L / R 2$ c) $R L$
9) If $R$ is doubled and $C$ is halved then frequency of series RLC circuit is
10) The solution for the equation $(D 2+4) y=\sin 2 x$ is
11) Laplace Tramsform of $\sin 3 x$ is
12) The Z-transform for the series is
$X[n]=\{7 ; n=-1$
$\{5 \mathrm{n}=0$
$\{1 n=1$
\{0 else
13) The magic Tee is a
a) 4 port tee b) c)
14) The register which holds the address of the next instruction is

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a) Program counter b) c)
15) The antenna gain is given by $\qquad$
a16) The satellite is in 630 km orbit and transmitting at a frequency 5 MHz , when satellite is on your head the Doppler shift is--------
a) b) c) 0 d)
17) The impedance of a lossless transmission line is
a) $v(L / C)$
18) A 50 ? line with load impedance 100 ? the VSWR is
19) In a waveguide measurement, the forward power is 10 mW , the reverse power is 1 mW then VSWR is $\qquad$
20) Transmitted power is 100 W , gain of the transmitter antenna is 30 dB and the path loss is 50 dB then received power is
21) When transmitted power is 100 mW and the path loss 100 dBm then received power is
a) -80 dBm

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22) When a em wave is incident normally on a perfect conductor then
a) Totally reflected b) partially reflected
c) Totally transmitted d) none.
23) $\mathrm{Zsc}=100$ ? $\mathrm{Zoc}=1$ ? then Zo is
a) 1 ? b) 10 ? c) $\qquad$ d) $\qquad$
24) When the operating wavelength of line is ?/4<? $<? / 2$, the impedance is
a) Capacitive b) inductive c) $\qquad$ D) none
25) The value of $L$ if source is 50 V AC of 10 KHz frequency and current is 7.96 A .
a) $\qquad$
26) The resonant frequency is 50 MHz bandwidth 100 KHz then Q factor is
a) $\qquad$ b) $\qquad$ c).....
27)The $Q$ factor of a series RLC circuit is

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Tour key towards success...
a)......b)......
28) $Q$ value of a parallel RLC circuit is $\qquad$
a)......b)....
29) If the lines $x+y+3=0, x-2 y+7=0,2 x+k y+5=0$ are required to be concurrent then the value of $k$ is $\qquad$ a) $\qquad$ b).....
30) The vectors $i-2 j+k, 2 i+3 j-k, R$ are the complete, then $r$ is given by $\qquad$
31) If a satellite revolving with angular velocity $w$ and the velocity is $v$ then

Curl v is $\qquad$
a) w b) 2 w c) w 2 d )
32) If each stage amplifier contains 10 dB gain the figure of merit of 2 -stages is

Given by
33) The maximum rate possible in kbps if $\mathrm{F}=15$ and bandwidth is 4 KHz is. $\qquad$
34) The maximum time allowed for each flip flop for a ripple counter of mod-1024, if clock given to it is 1 MHz is $\qquad$
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35) The maximum time allowed time for each flip flop for a mod 10 synchronous counter if each flip flop delay is $25 n$ s.
a) 25 ns b) 50 ns c) 100 ns d) none
36) The high speed for CML gate is due to operating it in $\qquad$
a) non saturation
37)In a micro processor the wait states are inserted to
a) make the processor to wait during DMA operation
b) make the processor to wait during an interrupt processing
c) make the processor wait during a power shutdown.
d) interface the slow peripherals to the processor.
38) In a digital voltmeter the ADC's used are of type

1. successive 2.flash type 3. Dual slope
in ascending order of time is
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a) $2,1,3$ b) $1,2,3$ c) $3,1,2$ d) none
39) The number of NAND gates are required to implement A?B (XOR), assuming compliments
not available $\qquad$
40) The resolution for a DAC is given by $0.4 \%$ then no. of bits of DAC is
a) 8 - bits
41) The chip capacity is 256 bits, then the no.
of chips required to build 1024 B memory

Is. $\qquad$
a) 32 b) 16 c) 15 )
42) Which of the following are correct?

1. A flip-flop is used to store 1-bit of information
2. Race around condition occurs in JK flip flop when both the inputs are 1

## 3. Master slave flip flop is used to store 2 bits of information

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4. A transparent latch consists of a D- flip flop
a) $1,2,3$ b) $1,3,4$ (ANS) c) $1,2,4$ d) $2,3,4$
43) The bit rate of a QPSK compared to BPSK is
a)half b) double c) same
44) There are 5 red balls and 5 black balls in a box. The probability to select 2 balls one after other without reputting is,
a) $2 / 9$ b) $1 / 90$ c) $11 / 90$ d) none
45) The rms voltage is obtained by multiplying peak by a factor
a) $1 / \mathrm{v} 2$
46) $\mathrm{H}(\mathrm{s})=\mathrm{S} /(\mathrm{S}+\mathrm{a})$ is a transfer function of $\qquad$
a) LPF b) Notch c) BPF d) HPF
47) Resistance of a 2 parallel resistors is 12 ? and the effective resistance when one resistor broke is 18 ? then the value of resistance in another is $\qquad$

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48)The output of a phase modulator when input applied is integrating signal is
a)FM b) AM c) PM d) none
49) For a transformer the losses which vary with load are
a) core losses b) copper losses c) Hysterises losses d) none.
50) The waves which cannot be transmitted in waveguide are
a) TE b) TEM c) TM d) none
51) Diplexer is a
a) circulator only b)only transmitter filter c) only receiver filter
d) both transmitter and receiver filter
52) $d(t)$ represents impulse then ? $(d(t) \cos 2 t) d t$ with limits 0 to infinity is
a) 1, b) -1 c) infinity d ) 0
53) $? 1 /(x v(x 2-a 2)) d x$ is
A) $\operatorname{cosec} 2 x$

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# 1 The concept of derived from the "ZEROTH LAW OF THERMODYNAMICS". 

TEMPERATURE

2 The concept of -------------------------------------- derived from the "SECOND LAW OF THERMODYNAMICS".

## ENTROPY

3 The expression for isentropic index [?] in terms of number of degrees of freedom
(n) $\qquad$
$1+[2 / n]$

4 The critical Reynolds no upto which the viscous flow exists in pipe $\qquad$

2000

5 Two forces of equal magnitude $P$ acts at right angles to each other and having same directions. Find out the expression for their resultant [R ]----------------------

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10 The expression for loss of energy [he ] due to sudden enlargement of the pipe-----

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he $=[v 1-v 2]^{2} / 2 \mathrm{~g}$

11 A spring of stiffness K is divided into " $n$ " number of springs. Each spring having stiffness
nK

12 The non-dimensional number corresponds to
[inertia force\compressibility force]½------------------------------- Euler number

## 13 Equation for forced vortex flow----------------------------------

$\mathrm{v} / \mathrm{r}=$ constant

14 The causes of cavitation

Metallic surfaces are damaged

## Noise \& vibrations

15 How to increase the thermal efficiency in Carnot cycle by--------------------------------

## Decreasing low temperature

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16 The slenderness ratio in columns can be obtained from the $\qquad$

Least radius of gyration

17 50:1 gear reduction ratio possible in-----------------
worm gear

18 Wire drawing property named as --------------------------
ductility

19 One man is standing in the elevator and the elevator is moving in the upward direction. What type of reading regarding the weight of man will we get from gauge--

The weight of man shown by the gauge will more the actual weight of the man.

20 LMTD for counterflow heat exchanger is compared to parallel to heat exchanger-----

More

21 The free damping equation $2 y^{00}+3 y^{0}+8 y=0$. Calculate damping factor (D.F )--
$\qquad$
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3/8

22 The discharges for the two parallel pipes of same lengths are Q1 \& Q2 respectively and their diameters are $200 \mathrm{~mm} \& 800 \mathrm{~mm}$ respectively. Calculate the ratio of discharge of smaller pipe to larger pipe.
$1 / 32$

23 A compressor is used to compress the air from 5 bar to 10 bar .Calculate its critical pressure [ P?]----------------------
2.64 bar

24 Equivalent twisting moment-----------------------------------
$T e=\left[T^{2}+M^{2}\right]^{1 / 2}$

25 The shear stress distribution in pipe flow

Centre is zero and linearly varying from the center to the wall

26 The irrational component in x-y is--------------

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$d v / d x=d u / d y$

27 The ratio kinetic viscosity/thermal diffusivity is -------------

Nusselt Number

28 The cylinder is subjected to insulations K \& 2 K at the outside surface to avoid heat transfer. In order to arrest heat transfer effectively, which insulation should be provided first at the outer surface?

2K \& K respectively

29 The wall having conductivities

K1 K2

Findout the equivalent conductivity of the material---------------------?

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29 The maximum amplitude in this vibration equation $y=6 \sin ? t$ $\qquad$

6

30 The thermal boundary layer in an ideal fluid flow is --------------

0

31 What does tend to stagnation point $\qquad$

The velocity is 0 at the stagnation point due to the increase in pressure energy from the conversion of K.E into P.E.

32 Match the following:
i. subsonic nozzle : figure
ii. Supersonic nozzle : figure
iii. Subsonic diffuser : figure
iv. Centrifugal compressor : figure

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33 The factor of safety subjected to number of cycles related to

Endurance limit

34 In composite beam, width is directly proportional to --------------------------------------
if the depth of the beam is kept constant.
a M

35 The heat transfer rate of hollow cylinder is inversly proportional to the following
r2/r1

36 A material at $300^{\circ} \mathrm{C}$ is immersed in water at $30^{\circ} \mathrm{C}$ such that it will take 170 seconds to become $150^{\circ} \mathrm{C}$.

A same material at $300^{\circ} \mathrm{C}$ is put in air at $30^{\circ} \mathrm{C}$ but it will take 200 seconds to become $150^{\circ} \mathrm{C}$. What is the reason behind it ?

K of water is more compared to air

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37 Radiation is $\qquad$ wave phenomenon

Electromagnetic without medium

38 The compression ratio[r] of petrol engine ranges from

6 to 10

39 ?dQ/T =0 and ?s=0 corresponds to ---- irreversible \& adiabatic

40 Cold working of metal increases ----------------------

Tensile strength

41 The power absorbed in belt drive depends on--------------------------

Tension in tight side, Tension in slack side, coefficient of friction \& Radius of pulley.

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42 The temperature loss related -------------- hysteresis loss

43 The convergent pipe having entry and exit diameters are 100 and 50 mm respectively, find out their velocity ratio from entry to exit. $\qquad$
$1 / 4$

44 They had given one composite circular pipe having 4 varying cross sections. They are 2D, 1.5D, 4D \& D respectively. The water is entering at velocity V at section 1 and leaving at section 4 . Find out the pressure decreasing order. $\qquad$

P4>P2>P1>P3

45 The bulb having weight 150 N supported by two ropes and attached to the walls having angles $45^{\circ} \& 60^{\circ}$. Findout the reaction forces in the ropes?

This is related to Lamis theorem

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46 A hollow sphere of radius $r$. A particle is moving with coefficient of friction $1 /[3] \frac{1}{2}$ inside the sphere from wall . which height will it become rest?

47 The disc is resting on the rough wall by a rope tied at the center. The rope makes angle with the wall around $30^{\circ}$. The tension in the string is ----------than the weight of the disc. more

48 A railway wagon containing partially full of water. Which angle-----------------

49 Findout the graph between discharge [Q] in the x-axis and head [H] in the $y$-axis-
$\qquad$

50 In welding pitch dimension is limited to-------------------------

51 The composition of inconel alloy---------------------

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52 There is a heat transfer between two walls having thickness and conductivities k1 \& K2 respectively. The linear temperature profile of first wall is more steeper than the second wall. Findout the ratio K1/K2 $\qquad$
a) $>0 \mathrm{~b})<0 \mathrm{c})=0 \mathrm{~d}$ ) the given data is insufficient

53 The max shear stress developed in solid circular shaet is 100 MPa . Calculate the max normal stress developed in it? ??????

54 This question related to welding $\qquad$

55 Bearing liner-----------------------------
a) Babbit metal b) Gun metal

56 Electrical resistance material --------------Nichrome

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57 This question related to radiation

58 A sun emits 1150 K at $0.5 \mu$. A furnace emits 300 k from small door $\qquad$

59 In the simple pendulum , the maximum amplitude depends on ---------------------increase in length

60 The fuel flow increases if----------------------------
a) exhaust valve burnt b) filter choke c) silencer choke

61 The jet propulsion depends on-------------
a) jet velocity b) weight ratio

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62 What is the condition for perfect frame------------------------------------------

63 Depth of cut can be increased by-------------------------

64 The workpiece can be held in------------------

65 This is related toNucleate boiling

66 What is the expression for Reynolds number in terms of diameter of the pipe. $\qquad$ Re $=$ ?VD $/ \mu$

67 Air conditioning means---------------
a) cooling \& heating b)dehumidifying c) removing impurities from air d)all

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68 Fibrous fracture occurs in $\qquad$
a) brittle fracture b) ductile fracture c) shear fracture d) none

69 In laser beam machining , the workpiece should be--------------
a)absorbed by all the rays b) reflected by all the rays

70 Foam and coke are good insulators. Why?-------------------------
a)less density b)

71 Gold property-------------------
a)good conductor b)good insulator

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72 In lathe, the workpiece can be held in
a) live center b)steady rest c)3-way chuck d)4-way chuck

1) output resistance of ideal OP AMP is:-
a) 0
b) 1
c) infinite
d) very high

ANS: a) 0
2) waveguide acts as:-
a) LPF
b) HPF
c) BPF
d) $B R F$

ANS: b) HPF
3) quality factor of series RLC ckt. increases with:-
a) increase in $R$
b) decrease in $R$
c) doesn't depends on $R$
d) none of these ANS: b) decrease in R.
4) energy stored in capacitor is given by:
a) CV
b) 0.5 CV
c) CV 2
d) 0.5 CV 2

ANS: d)
5) CMRR of an OP AMP is given as 80 db and Ad is 20000.Value of Acm will be:-
a) 4 b) 8
8 c)
c) 2
d) 1
ANS: c) 2

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