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Pattern 120 question techni cal 50 Aptitude
Wei ght age of subjects as follows
Techni cal
I nst rument ation---15-20 question
Communi cati on ------15-20
Control systens -------15-20
M croprocessor s8085---4-5
Di gital el ectroni cs ------9-11
Si gnal systens ------ 3-4
El ectroni cs -----------13-15
Aptitude
Engl i sh ---- 20
Quant------20
Reasoni ng- - 10
Question whi ch I rementer as follows Techni cal

1) Gai $n$ bandwi dth product of 2 stage CE amplifier compared to single stage
a). greater
b). I esser
c). same et c
2) Early effect in transistor leads in
a). Fast switch b). slow switch etc
3) MDSFET acts as a
a). Resi st or
b). i nduct or
c). capcitor etc
4) Nor mal PH i s
a) 7
b) 2
c) 5 et c
5) Gave number of bits as 8 and max voltage as 100 V asked to cal cul ate resol ution
6) strain guage working principle
a). resistor c). capacitor etc
7) Cl ass AB property
a). Mbre efficiency b). avoids crossover di strotion
8) 3-4 problems rel ated to oscilloscope
9) Gave a si mple block di agram asked to find TF
10) Gave di screte sequence asked to cal cul ate DFT
11) $x$ (at )------Zt ransf orm --
a) $1 / a X(z / a)$ et $c$
12) Peak over shoot $100 \%$ cal cul ate damping fact or
a) 0.707
b) 1.732
c) 0.5 et c
13) gave transfer function asked to cal cul ate phase crossover frequency
14) If modul ating frequency doubl es then BW of FM becones
a). twi ce
b). hal f
c). same etc
15) Gave unmodul at ed carrier power and modul ated carrier power asked cal culate modul ation index

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16) In TDM system no: of tel ephone channel s give asked to cal cul ate o/p freequecy
17) 3 to 4 probl ems on bridges and i nstrument at ion
18) If range is more it leads in
a). Mbre preci si on
b). nore accuracy
c). more error
19) 2 t o3 problems on $A D C$ and DAC to cal cul ate the number or out put bits reqd
20) Probl em based on channel capacity theorm
21) Vect orred i nt errupt among the following
a). RST 6.5
b). RST 5.5
c). TRAP d) I NTR
22) Memory of $64 \times 1 k$ available 4 such memry cl ubbed toget her with si ngle address I ine gi ve
a) $16 \times 16 \mathrm{~K}$
b) $256 \times 1 \mathrm{k}$ et c
23) For a stable system
a) $h[n]!=0 \quad n>0$
b) $h[n]$ ! $=0 \quad n<0$
c) $h[n]=0 n<0$
b) $h[n]=0 \quad n>0$
24) Wh in DFT a shifting property was asked
25) Wheat st one bi dge used for measuring
a) resistor b) i nducat or et c
26) RLC ckt response
a) exponent i al ly increasing
b) decreasing etc
27) FET i s a
a) VCVS
b) CCCS
c) VCCS
d) CCVS
28) Gave a TF asked to identify the pol es and zeroes
29) Gave a char acteristic equation asked to find number pol es in right side 30) Opt i cal wavel engt $h$ range asked
31) LASER abbrevi ati on--------
32) Schot ky TTL di ode
is used to reduce
a) del ay
b) gat es
C) power
d) none

Apt i tude
Engl i sh

1) Prepostions 3 to 4
2) Synonyms \& ant onyms
3) gr ammer

Quant

1) Rat i os
2) Profit \& Ioss

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3) Bar graph gi ven asked to find several things
4) Puzzles rel ated persons going to different offices
5) Wbr ds codi ng et c

That's all I rementoer Al l the Best

