SAIL Technical 2010

What is the main different between distribution transformer and power transformer?

Where manning formula used

what is the differance between item category and material type?

When a square wave is applied to primary of a transformer then what will be output wave form of secondary ?

what are the warehouse reserch? and pocess of warehouse research?

What is the rating of HT SUBSTATION and LT SUBSTATION?

which of the following rivers does not form any delta T ITS MOUTH? Cauvery,

Mahanadi, Godawari, Tapti

How much is the minimum marks for CIVIL judge interview in MPPSC. where i can

get rules in this regard documented?

what are the uses of graphite electrode in various field. what is the use of "fg" command?

what are %TYPE and %ROWTYPE? what is the difference?

- 1.where does a body have least weight?
- a) at the equator
- b) at the poles
- c) at earth's center
- d) none of these
- 2. what is the millman's theorem?
- 3. what happens if a dc motor is fed an ac signal?
- 4. calculate electron mobility.
- 5. power MOSFET is voltage controlled or current controlled?
- 6. if u want a 640 k RAM, what specification should u specify in the drive?
- 7. max efficiency of a class a amplifier?
- 8.what r resistors in IC made of?
- 9. 6 girls and 6 bos sitting randomly in a line. what probability of girls being

- 10.what is the prob. of two friends having birthdays in same month?
- 11. $(D^2 + 4)y = kx$ what if PI?
- 12. lim x-infinity sinx/x
- 13. express x/(x+1) as taylor's series
- 14.principle of jet engine
- 15. why hydraulic systems used ina aircrafts instead of electrical?
- 16. steel + ? = corrosion-resistant material?
- 17. what happens to speed of em wave as frequency increases?
- 18. which char. of em wave does not change when it travels from one mdium to
- 19. circuit given. find attenuation in db. 20. circuit given. how much feedback?
- 21. (s-1)/(s+1) is high pass filter/ low pass filter?
- 22. fastest logic family among rtl, dtl, ttl?
- 23. in common emitter config. change in iC on changing vBE?
- 24. what happens if gate voltage of an ON scr is decreased?
- 25. fermi level change with temperature in n type semiconductor?
- 26. mosfet has threshold voltage 1v when n+ polysilicon is used in gate. what is

threshold voltage when polysilicon used is of n+ type?

- 27. simple ckts using zener diode. 28. what is the p+ substrate in an isolated pn junction ic connected to?
- 29. opamp circuit given. open loop gain=100. closed loop gain=?
- 30. which type of parameters(h/y/z) suitable in particular application?
- 31. given parallel LC ckt. find angle between currents in branches at resonance.
- 32. what is Q of series RLC ckt? (voltage gain/ admttance etc.)
- 33. resonant freq of parallel RLC ckt. ?
- 34. thin metal foil inserted between capacitor plates. foil connected to one plate. change in capacitance?

- 35. ques on reflection of em wave at air= dielectric interface. dlc const=9
- 36. what is brewster's angle?
- 37. why microwave freq not used for ionospheric propagation?
- 39. freq range used in satellite comunication?
- 40. which ionospheric bands used for commercial purposes?
- 41. question on transmission line impedance matching?
- 42. flip- flop d, t 43. convert 32 k pulses to 1 hz pulses using decade counters etc