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HAL - Placement Paper - Bangalore

- 1. partial differntiation of $x^3*y^3/(x+y)^3$
- 2. some points like (0,2,4), (2,5,-1) and (6,2,0) were given and were asked to find whether it is parabola, eclipse, carboid or cycloid.
- 3. there were so mant conversion questions like binary to decimal, decimal to binary, decimal to oct, binary mulitiplicationsetc.
- 4. some Laplace formula related to sine and cosine terms.
- 5. fouries series of quarter symmetry
- 6. by applying rouths Hurwitz criterion we were suppose to find the number of roots the equation was something like $2s^4+s^3+4s^2+s$ i think so
- 7. damping is proportional to gain, sqrt of gain, 1/gain or 1/sqrt of gain
- 8. vocabulary like germs:disease::, emulate:mimic::,
- there questions about power plants like which plant correspond es to highest capital cost, highest running cost, lowest operational cost, efficiency of thermal plant
- 10. what is the present capacity of unit generation 200MW, 210 MW, 375MW or 500 MW
- 11. where in nuclear power plant is located like kota, talcher, kolghat,
- 12. there was 1 question realed to idduki, ramagundam power plants i dont know whether it is the odd 1 out of the hydro plants
- 13. there was 1 repeated questions related to the spacing b/w the phase conductors like 11m, 8m, 20m, 24m.
- 14. is meager related to hot wire instrument, moving coil or moving iron.
- 15. 1 question related to load factor.
- 16. in a two w/m method what is the condition for which both the w/ms are equal and opposite.
- 17. question based on inverter gate
- 18. question related to maximum overshoot.
- 19. 2 or 3 questions were related to step input, impulse i/p etc.
- 20. 1 question related to boolean algebra
- 21. some questing related to find the value of lambda to get no solution.
- 22. 1 question was related to find from the options of nquist criteria, bode plot, routh Hurwitz,
- 23. question related to expontial rise and fall of inductor.
- 24. given 2 poles and 50 hz freq to find the syn speed.
- 25. question based on inertia constant and p.u. values
- 26. question bead on power transfer capacity and voltage
- 27. SIL of 400 KV lines
- 28. 2 questions based on maximum power transfer capacity from circuit theory.
- 29. attitude ques of pipes and cisterns, compound interest, time and distance, cubes, hcf and lcm, multiplication,
- 30. for how many days there will food if 2 persons are supposed to leave. question related to this were asked.
- 31. questions related to angles i don't remember the questions i remember only the options like pi/3, pi/6, pi/6
- 32. question's based on P&V, P&Q, V&delta.
- 33. how many HVDC links are presently in use in India.
- 34. there were 4 questions like if A*B represents Ais the son of B, C/D represents C is the husband of D then how A and D are related.
- 35. to sort the odd number out from a box of given numbers.
- 36. Vrms and Vo of full wave rectifier
- 37. reflection coefficient of current of an open ended line.