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#### BHEL PAPER - 10 AUG 2008 - SECUNDERABAD

Today I have taken BHEL exam. I would like to give u the details of the written test. It comprises of 2 sections Technical (120) and Aptitude (120), total 240 (Test duration 150 minutes). Here I will post the questions as far as I remember. I am from mechanical stream. Paper is easy and many are direct questions, only factor concerned is the time.

#### SECTION-I--TECHNICAL

1. Critical load acting axially on a long column

Ans: (pi)2\*E\*I/L2

2. Relation between moment of area and radius of gyration

Ans: I=AK2

3. Cup shaped components are produced using which operation

Ans: drawing

4. A sheet of Al alloy having 2mm thickness is welded using which process

Ans: TIG

- 5. Two gears having teeth 18 and 40 and center distance 56.. what is the module?
- 6. In thick cylinders, which of the following is true[\*S stands for sigma\*] (a) St>Sr (b) St=Sr (c)St
- 7. In a plane stress condition, if the centre of Mohr's circle coincides with the origin then which is true.. ...the relation between Sx and Sy is asked
- 8. Lame's theorem...F1/sinA=F2/sinB=F3/sinC
- 9. Young's modulus value for steel=200Gpa
- 10. Thermal conductivity of silver=400w/m0K
- 11. Fouling factor formula....F.F = 1/Udirty-1/Uclean
- 12. Relation between notch sensitivity factor and theoretical stress concentration factor
- 13. Effectiveness of heat exchanger definition
- 14. Reynolds's number formula
- 15. Clinical thermometer is which order system ...0,1,2, or 3

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- 16. Piezometric transducer is used to find which signals-static or... dynamic
- 17. Peclet number formula=Re\*Pr
- 18. Radiation energy emitted, Emitted=S\*A\*T4
- 19. Which of the following is not related to CI engine
- (a) Fuel pump (b) carburetor (c).. (d) none
- 20. Two connected in series having stiffness's K1, K2 Kequivalent=K1\*K2/K1+ K2
- 21. Magnification factor at resonance, MF=1/2zeta
- 22. Coroili's component value, =2vw
- 23. Hooks law holds good upto (a)elastic point (b)UYP(c)LYP(d)Failure
- 24. Meshing of two gears fail if
- (a) materials are different(b)
- 25. A beam whose one end is fixed and other is free is (a)cantilever (b)ss(c)Udl(d)none
- 26. Deflection at the free end of cantilever =PL3/3EI
- 27. Shear stress, twisting moment given ,find diamaeter...
- 28. Formula for polar moment of inertia of a hollow shaft
- 29. Formula for logarithmic decrement
- 30. A problem based on the above formula
- 31. Two question on transmissibility (W/Wn ratio)
- 32. Question from vibration..mass, k given.. cal frequency
- 33. Two more questions, one each from riveted joints and cotterjoint
- 34. 1BHN=N/m2
- 35. Temperature limits, given to find Carnot's efficiency
- 36. Metacentric height is the distance between Metacentre and ---- Ans: Centre of gravity
- 37. Force and displacement vector given to find out the work done
- 38. Rota meter is used to find (a)flow(b)velocity(c)pressure(d)density

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In addition, 10-12 were asked from electrical basics.

### SECTION-II--APTITUDE (VERBAL)

Antonyms (5)-Facetious, Benign.. Synonyms (5)-very easy Fill in the blanks (5):-a bit tough 2 Comprehension passages Correction of sentences-(5) Reasoning (5)

This section is very easy that u can start of the exam with.

Hope this is helpful to u all.

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