

BHEL Interview for Engineer Trainees- 2009
(Internal candidate may collect Interview guide for BHEL)

Below are few question asked at the time of interview at BHEL –

- Q. Why I want to join BHEL.
- Q. They asked about my family, father's job, brother-sisters etc..
- Q. Next they asked what preparations I have done for the interview.
- Q. What do mean by 8085.
- Q. How many types of microprocessors do we have?
- Q. Do we have any 64 bit processor?
- Q. What is RISC/CISC?
- Q. What's the difference between them?
- Q. Do we use microprocessors nowadays?
- Q. What are microcontrollers?
- Q. What do you think the CPU we use has microprocessor in it.
- Q. What do you think the other components are?
- Q. What do think Pentium uses RISC or CISC?
- Q. They told don't tell we can, what we exactly use

BHEL PAPER ON 10th AUGUST AT SECUNDERABAD

SECTION-I----TECHNICAL

1. Critical load acting axially on a long column

Ans: $(\pi)^2 E I / L^2$

2. Relation between moment of area and radius of gyration

Ans: $I = AK^2$

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) $\sigma_t > \sigma_r$ (b) $\sigma_t = \sigma_r$ (c) σ_t

7. In a plane stress condition, if the centre of Mohr's circle coincides with the origin then which is true... ..the relation between σ_x and σ_y is asked

8. Lame's theorem.... $F_1/\sin A = F_2/\sin B = F_3/\sin C$

9. Young's modulus value for steel=200Gpa

10. Thermal conductivity of silver=400w/m0K

11. Fouling factor formula..... $F.F = 1/U_{dirty} - 1/U_{clean}$

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 system0,1,2, or 3

16. Piezometric transducer is used to find which signals—static or.... dynamic

17. Peclet number formula= $Re \cdot Pr$

18. Radiation energy emitted, $E_{emitted} = S \cdot A \cdot T^4$

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 K_1, K_2

$K_{equivalent} = \frac{K_1 \cdot K_2}{K_1 + K_2}$

21. Magnification factor at resonance, $MF = \frac{1}{2\zeta}$

22. Coriolis component value, $= 2v \cdot \omega$

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 $= \frac{PL^3}{3EI}$

27. Shear stress, twisting moment given ,find diameter....

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($\frac{W}{W_n}$ ratio)

32. Question from vibration...mass,k given ...cal frequency

33. Two more questions, one each from riveted joints and cotterjoint

34. $1BHN = N/m^2$

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