

Thermax Placement Paper Questions

- Q1. What is the procedure of O₂ analyzer calibration?
- Q2. What is BKW of Motor? What is its significance?
- Q3. What is impedance voltage?
- Q4. What happens to boiling point of water on moon?
- Q5. What is primming in pumps?
- Q6. What is welding?
- Q7. Explain KVL & KCL Laws?
- Q8. What are the common troubles in working of a turbine?
- Q9. Brief about maintenance planning and scheduling of machine tool.
- Q10. What is the working principle of sox, nox analyzer?
- Q11. Why we use 250 ohm resister in series hart communicator?
- Q12. What is natural frequency of turbine shaft?
- Q13. How to measure the dust in chimney?
- Q14. What is cascade system?
- Q15. How to calculate the efficiency of Turbo Generator (Alternator)?
- Q16. How to define the P,I,D value in tuning PID loops?
- Q17. What is hardness & how hardness can be analyzed?
- Q18. What is the material composition in IBR tubes?
- Q19. What is steam? What are the properties of steam?

Q20. How turbines classified? What are their respective areas of application?

Q21. What is the name of the two drums in a bi-drum FBC boiler?

Q22. Draw the sketch of joint where a column and beam joins, using riveted connections and gusset plates.

Q23. What are the shuttering methods for cooling tower fan decks?

Q24. Explain heat transfer coefficient behavior.

Q25. What is the difference between droop mode and isochronous mode in thermal power plant?

Q26. What is reactive power? What is its role in transmission lines?

Q27. What is the function of nozzle? What happened when the fluid flow through a taper pipe i.e. what about inlet and outlet velocity, pressure?

Q28. How we select the fuse and OLR rating for 3 phase induction motor from 1HP to 100 HP?

Q29. What is the effect of reheat on Rankine cycle?

1. efficiency increases
2. work output increases
3. both
4. none of these.

Q30. What is AVR in Turbo generator in Thermal power plant?

Q31. What is the cause for backfire in boiler?

Q32. What is upstream and downstream in liquid flow?

Q33. Why start up vent is fully kept open when boiler is lighted up?

Q34. How many safeties should be present in boiler? What are they?

Q35. What is the calibration standard for pressure and differential pressure transmitters?

Q36. Tolerance is specified for what?

ANS: Product cannot be produced accurately.

Q37. Toughness is measured by ---

ANS: Impact

Q38. Definition of toughness.

ANS: Maximum absorption of energy

Q39. If torque is increased, speed ---

ANS: Decreases linearly

Q40. Unique property of cast iron is

ANS: Damping property

Q41. What is mass flow meter principal?

ANS:

A mass flow meter, also known as an inertial flow meter is a device that measures mass flow rate of a fluid traveling through a tube. The mass flow rate is the mass of the fluid traveling past a fixed point per unit time.

Q42. How to calculate the cement, sand quantity for plastering 10mm thick ratio 1:5? What is the formula?

ANS:

$10=3.048\text{m}$ $3.048 \times 3.048 \times 0.01 = 0.092\text{m}^3$ dry wet =15% more $0.092 + 0.092 \times 0.15 = 0.1058$
cement = $0.1058 / (1+5) = 0.017\text{ m}^3$ cement sand = $0.017 \times 5 = 0.088\text{m}^3$

Q43. What is difference between corrosion and erosion?

ANS:

Corrosion is due to oxygen & air but Erosion is due to accumulation of flue gas ash deposition on the material.

Q44. What is the difference between neutral point and earth point?

ANS:

In power transformer the star point of the LT is connected with the earth it is called the neutral point and a earth wire connected to body is called earth point

Q45. How to find the primary and secondary of transformer (in OFF condition) using Multimeter? Is it possible to find it by seeing resistance?

ANS:

Yes, it is possible by measuring the winding resistance of primary & secondary. High voltage side will have high resistance and low voltage side will have low resistance.