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Placement Paper

- 1 An ice block submerged in the water, if the ice melts level of water (increase,decrease,remains same,none)
- 2 Simply supported beam with w point load at the middle, max. bending moment?(wl/4)
- 3 Simply supported beam with UDL ,max.deflection (wl4/384EI)
- 4 Cantilevel beam point load at tip,max.bending moment comes at (end)
- 5 When bearing life L10 represents (bearings 10% survive, bearings 10% fails, none)
- 6 For welding high carbon steels which type of flame is used (oxidizing,carburizing,neutral,none)
- 7. Arrange the following cutting tools in decreasing order of machining hardness...Ceramics
- 8. When P1 and P2 are the loads acting on bearings with life L1 and L2 then L1/L2=? L1/L2={P2/P1}10/3
- 9. Product simplification does not mean?? Product characterization
- 10 Which of the following process has the most scope in manufacturing? CAD/CAM, CAM, CIM, All the above.
- 11. Concurrent engineering means? (Manufacturing, designing, both,none)
- 12. Which manufacturing process yields higher output and increases worker productivity-(process layout,line+process,functional layout)
- 13. 18-4-1 represents-, Tungsten-Cr-Vn
- 14 For which material is negative allowance provided-(Graphite, steel, bronze, cast iron)
- 15. What is the recrystallisation temperature of tin- (60,300,1000,none)
- 16. What is the purpose of borax in soldering-
- 17. Top gates are provided in which type of casting-(Shallow

casting, simple, complex, none) http://isbigdeal.blogspot.com

- 18. Which statement is true regarding simple gear trains-(i/p and o/p shafts r fixed, each shaft has 2 gears, i/p & o/p shafts r moving)
- 19. What is the purpose of normalizing- (Refining of grain structure)
- 20. As the grain size is decreased-(Hardness increases, corrosion resistance decreases, both)
- 21. Isothermal gas is filled in a vessel at a pressure P and temperature T then considering the compressible forces as the height increases pressure ??(linearly increases linearly decreases exponentially increase)
- 22. A bottle is filled with water and air and is tied to a string and is rotated in horizontal direction. Then in which direction will air bubble travel? (bottom,neck,uniformly spread)
- 23. A empty bottle(in vaccum) filled with a gas at temp T and press P when the pressure of bottle reaches P temperature of the gas is _? (T,T/K,TK)
- 24. Bearing somerfield number _ with load on bearing? (increases,decreases,no change)
- 25. Critical radius for a sphere is-(2k/h)
- 26. Critical radius exist for_ (spherical,cylindrical,both,slab)
- 27. Convectional resistance/internal resistance is called (biot number)
- 28. Nusselt no. is? (hl/k)
- 29. EOQ=?
- 30 Which statement is true regarding critical path method? (i only one critical path exists for a network, more than one with same duration,)
- 31. Shipment cost,inspection cost,storage cost comes under_ (carrying cost ,holding cost,)
- 32. Ischronous governers sensitivity is- (zero,infinite)
- 33. self energized brakes are-(friction moment acts in the direction of application of force, opposite to the direction of force, does not need a force to act,)

- 35. when steam and air mixture with partial pressure 0.06 and 0.07 enters a condenser what is the condenser pressure? (0.06,0.07,0.53,0.03)
- 36. In pulverized burning of coal heat transfer from boiler to water occurs through_(predominant radiation, convection, conduction, conduction+convection)
- 37. Rankine cycle efficiency for same parameters increases mostly with_(reheat, regeneration, super heating)
- 38. Ericson cycle with all reversible processes assume_(carnot cycle,stirling,brayton
- 39. Air delivery tank at outlet of reciprocating compressor is provided for_ (provide constant pressure, avoid cavitation,)
- 40. High speed centrifugal pump has _? (vanes faces in forward direction side,backward,radial vanes)
- 41. Thermal efficiency in decreasing order_? (Otto cycle>dual cycle>diesel cycle)
- 42. When a 1000 K body comes in contact with atmosphere at 300K a loss of 9000 KJ heat is transferred. The net available energy transferred is_
- 43. When entropy of a system increases_? (unavailable energy increases)
- 44. Rolling is a process widely used for_? (I section,tubes)
- 45. Tool nomenclature_?
- 46. In francis turbine movement of steam?
- 47. For low power consumption _? (rake angle should be increased / decreased, nose angle increased / decreased)
- 47. Continuous chips occur in_? (High speeds,low speeds,both,none)
- 48. Primary forces in a reciprocating engine_? (fully balanced, partially balanced, completely unbalanced, none)
- 49. In proximate analysis pyrogallol is used for analysis of which element_?

(nitrogen, oxygen)

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50. Sulphur content in fuel greatly affects_?

(corrosion)

- 51. Heat transfer through radiation can be increased by_? (decreasing emissivity and increases temperature of hot body)
- 52. which theory of failure clearly explains the failure in case of ductile material? (Maximun shear stress theory or Guests or trescas theory)
- 53. When a material is subjected to continuous cycles which limit is being verified? (Endurance limit)
- 54. where is stress concentration maximum? (notches, stress reducing throughouts)
- 55. Power transmitted through a belt drive_? P(T2-T1)
- 56. According to Eulers theory crippling or buckling load is (Wcr = C?2EI/12)
- 57. During sensible heating, specific humidity_? (remains constant)
- 58. COP of a refrigerator is _? (greater than 1)
- 59. The maximum temperature in a refrigeration cycle is_? (less than/greater than/equal to critical temperature)
- 60. The pressure at the throat of the nozzle_? (maximum,min)
- 61. for a statically determinate set of forces for equilibrium_? (? f(X),f(Y),f(Z)=0,?M=0)
- 62. For a statically determinate set of forces-(there r as many equations as the no. of unknowns)
- 63. 1-2-3 analysis is used for_? (1.break even analysis, ??)
- 64. A problem on mean time of service something like a salesman has a rating of 120. considering 10% allowance time calculate the time required to serve 120???
- 65. A problem n determining time in a queue??

66. Energy equation for a laminar flow is _? (Uniform and steady ,non uniform and unsteady)

- 67. Undercuts in welding occurs due to_? (low welding current,high welding current)
- 68. Work holding equipment in shearing??
- 69. At the centre of a nozzle $_$? (Mach no<1>=1;=1)