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Your key towards success.....

Distinguish between Earth & Neutral?

What is cutt off ratio in IC Engines.give proper defination.

a 3 phase slip ring induction motor is wound for 4 poles on stator and 6 poles on rotor; when 3 phase balanced voltage source at 50 hz is applied to motor it will run at a)1500rpm b)1000rpm c)750 rpm d)zero rpm

What is the Polarisation index value ? (pi value)and simple definition of polarisation index ?

where does preliminary expenses put in the balance sheet?

why we are not earthing ht cable at both the ends(sending & receiving end)?

can u please tell me how VFD(variable frequency) drive is used as a energy saver....?

In step down transformer (415/200V),mistakenly secondary side is connected to 415V for some hours, what would be result of this condition?

why for transformer protection we protect tranformer from 3rd harmonics and 5th harmonics and what is the reason of generating these horminics in electrical system?

Whats the diference between Induction motor and servo motor

What is Earthing?

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why semiconductor fuse used in drive ,not ordinary?

Distinguish between Earth & Neutral?

A Wheel accelerates from rest with an acceleration of 6 rad/sec². How many revolutions are experienced in 4 sec.? give answer with solution.

Why in medium voltage system(3.3kv to 33kv, neutral is earthed with either resistance, reactance or neutral grounding resistance?

1. Work done is Zero for which process? Ans: Constant Volume
2. Which cycle has high efficiency? Ans: Otto Cycle
3. The power of 2 -stroke engine varies from 4 - stroke engine by _____. Ans: Twice
4. Sudden reduction in barometer leads to _____. Ans: Storm
5. Composition of Stainless steel _____. Ans: Chromium, Nickel ...
6. Gears are produced in mass production by _____. Ans: Hobbing
7. Pick out the wrong statements:

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- a) The good fuel should have high calorific value
- b) Ease in storing
- c) High ignition point
- d) Low smoke and gases Ans: (C)

8. Composition of Gun metal _____

9. Gears are commonly called with _____ Ans: Pitch Circle Diameter

10. A good fuel should have _____ ignition point. Ans: Low

11. If heat supplied into the system is 30000 J/S and the power output is 9KW. What is the efficiency of system? Ans:

12. A square rod of 2cm x 2cm of which a force of 8800Kg is acting on it. What is the stress developed in it? Ans: 2200 Kg/cm²

13. GNATT chart shows _____

14. Which is the high efficiency freezing agent? Ans: Freon 22

15. Property of the freezing agent is: Ans: Low boiling point and high melting point

16. A diesel engine, that is, slow speed engine follows which cycle? Ans: Diesel Cycle

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17. Hardness is the property of _____. Ans:

18. A Rotary compressor depends on _____.

19. The potential energy raised upwards _____ the kinetic energy downwards. Ans: is equal to

20. Centipoise is the unit of _____. Ans: Dynamic Viscosity

21. For a thermodynamic system, the COP is 5 and the heat supplied to the system is 1 KW. What is the work done?

1) Composition of gunmetal?.

2) What is the fuel used in airplanes?.

3) Specific heat capacity of air?.

4) Melting point of Aluminum?.

5) If a ball is kept at a height of $x(m)$, from that position it is dropped. Does the p.e is equal to the K.e if the ball goes inside the earth as same distance where it is relieved?.



- 6) Viscosity of the lubricant ----- with increase in temperature?.
- 7) What amount of power required to make the 2-stroke petrol engine to 4-stroke diesel engine?.
- 8) Which engine is the most efficient in terms of compression ratio?.
- 9) for the same compression ratio heat removed in each cycle is efficient in otto or diesel cycle?.
- 10) Use of draft tube in turbine ? a) to increase work o/p of runner b) To increase turbine output.
- 11) Percentage of carbon in toolsteel?.
- 12) Introduction of sulphur in mild steel increases or decreases the machinability?.
- 13) Is bernoullis theorem is applicable for steady or unsteady flow?.
- 14) Axial turbine is of which type? a) high head b) low head.
- 15) corrosion is inhibited due to oxidation or reduction?.
- 16) Binary power cycle uses -----as working fluid?.



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- 17) the purpose of runner in casting -----
- 18) shape of a u.d.l.of cantilever beam is?.
- 19) which has high coefficient of friction ?.disc or band brakes
- 20) Engine valve seat is cooled at ----- temperature in liquid nitrogen(-180C)
- 21)Bucling is high in bar which is greater or smaller in length?.
- 22) Formula for deflection of beam? Ans; PL/AE
- 23) Which law says that pressure can be transferred from onr point to another in an undiminished form?.
- 24) Is Vane pump is Positive or non-positive displacement pump?.
- 25) As the altitude why density of the decreases?.
- 26) In the reversible adiabatic process entrophy is constant or not?
- 27) In which process the temperature of the system changes but there is no heat transfer to the surroundings?

where does preliminary expenses put in the balance sheet?

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What does a pump develops? Flow or Pressure. Give the Answer with Proper Logic.

whats the diff b/w mpcb and mcb?weather it trips on single phasing or not.

what is surge suppressor?

why making capacity is more than breaking capacity?

what are userexits?? how to use it?? whats the importance of them?? can it be used in interactive reporting to directly come to basic list??

How do you determine or evaluate success?

why for transformer protection we protect tranformer from 3rd harmonics and 5th harmonics and what is the reason of generating these horminics in electrical system?

In step down transformer (415/200V),mistakenly secondary side is connected to 415V for some hours, what would be result of this condition?

what is the difference between earthed and unearthed cable?

- 1.In an ideal gas compared to a real gas at very high pressure occupies?
2. Kinetic theory of gases assumes that collisions between the molecules are?
3. The condition of perfect vacuum that is at absolute zero pressure can be attained at?

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4. Specific heat of air?
5. Which law states that internal energy is function of Temperature?
6. Minimum work done for an adiabatic process the value of n ?
7. Air Refrigerator works on?
1 watt = 1Nm/S
1 h.p = ?kw
8. When crude oil heated Which Hydro carbon comes first?
9. What is the purpose of Supercharger?
10. 1Kg of carbon to CO, Amount oxygen required?
11. Horse power per tones of refrigeration?
12. Scale formation on the surface of the boiler tubes due to ?
13. Axial shift in steam turbine occurs due to?
14. Latent heat of vaporization at low pressure and temperature?
15. Shaft revolving in a bearing which pair?
16. Difference between dedendum and addendum?
17. The fatigue life of a part can be improved by ?
18. Rotational tendency of force?
19. Acetylene dissolved in ?
20. The frequency of transverse vibration is 3hz then critical speed?
21. More viscous lub oil?
22. Example for Non destructive test?
23. Advantage of V belt?
24. In gear boxes Which type of key is used
25. A structural member subjected to an axial compressive force is called?

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26. Pig iron is produced in which furnace?
27. Heat generation of arc welding is due to ?
28. In what angle does an object thrown height will travel the longest distance?
29. Angle of contact between the journal and bearing?
30. The coupling is required to connect two parallel shaft distance between the shaft is small and variable?
31. Carbon is added to steel to increase its hardness-True/False
32. Wings of airplane are made by---
33. To protect from thrust which type of follower is used?
34. With increase in temperature--- Viscosity of liquid---
35. Heavy machine beds are made of CI for-----
36. For shock resistance and vibrations we use ----
37. Rupture strength===== ?
38. Washer is used for-----
39. Surface endurance limit depends on (toughness/surface tension/yield strength/surface finish)
40. In a uniformly distributed load of 6 n/m over a 5 meter length simply supported beam, the value of B.M at the point where shear force is zero (17.5/22.5/55/75)
41. Cam size depends on (base circle/pitch circle/prime circle/none)
42. Poisson's ratio is higher in (rubber/steel/wood)
43. In drill tool carbon % is (<0.4 %, 0.8% -1.6%, 1-2.5%)
44. Finishing operation in lathe is done at (low speed/high speed)
45. Degree of freedom in super structure (1/positive/negative/zero)
46. Axial compressors follow the process in ideal conditions (adiabatic/isotropic/isothermal)
47. Forced draft has negative pressure drop (true or false)

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48. advantage of v-belt?
49. The key used in the gears for transmitting power (flat/saddle/spline/square)
50. dye penetration test is (pouring/surface tension/capillary/none)
51. poisson ratio?
52. endurance limit is depend upon—1. toughness 2. elasticity 3. britleness?
53. in which furnace ,pig iron is made?
54. corrosion resistant material?
55. centipoises is unit of ?
56. broaching is made to produce?
57. steady rest is used for?
58. drill angle?
59. In parson's turbine ,relation between angles?
60. v-belt angle?
61. Refrigerant used in refrigerator?
62. Composition of Babbitt metal?
63. Cantilever beam failure of surface finish is represented by?
64. At what angle in the valve timing, Diesel engine injection occurs?
65. Name any one non destructive test?
66. Clutch is located between?
67. What is the Melting pt of iron?
68. Name any one Gear material?
69. Drill material composition?
70. Which mechanism is used to hold the gear ?
71. Reynolds number range for laminar flow –?



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72. Nusselt (for natural) number is function of which number?
73. Angle of contact between journal and bearing?
74. What is the function of cutting fluid?
75. Dual cycle combination of which two cycles?
76. In screw jack -----which thread is used?—
77. ACME thread angle?
78. Frequency of a system is 3 Hz then find the speed in rpm?
79. For which gear shafts are co-axial?

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