

# ACC Placement Question Paper

1. One inch equal to how much mm?
  - a) 25.4
  - b) 254
  - c) 2.54
  - d) None of these
2. One kW equal to .... H.P.?
  - a) 122
  - b) 1.47
  - c) 1.37
  - d) None of these
3. If drive pulley with 2" diameter rotates at 1440 rpm, then driven pulley with 4" diameter will rotate at .... rpm?
  - a) 1440
  - b) 2880
  - c) 144
  - d) 720
4. If H.P. of a motor is fixed, the relation between torque & rpm will be:
  - a) Torque will never change with change in rpm
  - b) Torque will change proportional to rpm
  - c) Torque will change universally proportional to rpm
  - d) None of the above
5. If one cubic meter of cement equal to 1440 kg, then density of cement will be
  - a) 1.440
  - b) 14.40
  - c) 144.0
  - d) 1440
6. In a concrete cantilever beam, the reinforcement should be..... to take the tension
  - a) in the neutral axis
  - b) bottom layer
  - c) top layer
  - d) None of these
7. Point of contraflexure means
  - a) where shear force is zero & bending moment is max
  - b) where bending moment is zero & shear force is max
  - c) where shear force & bending moment both are max
  - d) None of the above
8. Frictional force will increase with increase in
  - a) Size of the bodies
  - b) Contact area between two bodies
  - c) Co efficient of friction
  - d) None of the above
9. In two stroke diesel engine.....

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- a) inlet valves are used
  - b) inlet ports are used
  - c) None of the above
10. Relation between BHP (Brake Horse Power), IHP & FHP (Frictional HP) is
- a)  $BHP = IHP + FHP$
  - b)  $IHP = BHP + FHP$
  - c)  $FHP = IHP + BHP$
  - d) None of the above
11. Column with following cross section is having maximum resistance against buckling failure (considering cross sectional area are same for all)
- a) Circular
  - b) Square
  - c) Rectangle
  - d) None of the above
12. In a pipeline water is flowing & if we suddenly reduce the diameter, the velocity will increase & pressure will....?
- a) No relation with cross sectional area
  - b) Remain same
  - c) increase
  - d) decrease
13. In a lathe machine, lead screw is used for
- a) cutting gear
  - b) turning of shaft
  - c) cut the key slot
  - d) cut the thread
14. Unit of vibration is.....?
- a) Volt
  - b) Hertz
  - c) Gallon
  - d) None of the above
15. In air conditioning, the comfort level increases with.....
- a) Decrease in humidity
  - b) Decrease in temperature
  - c) Decrease in dust content
  - d) All of the above
16. Dry bulb temperature & wet bulb temperature are same when
- a) Humidity is 0%
  - b) Humidity is 50%
  - c) Humidity is 100%
  - d) None of the above
17. Carburetor is used in
- a) Modern diesel engine

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- b) Petrol Engine
- c) Cole Engine
- d) None of the above