

MCQs Bank for JE/MW (Mechanical)

1. The material used generally for manufacturing of bearing is –
  - a) Gold
  - b) Carbon Chromium steel**
  - c) Silver
  - d) Platinum
  
2. Function of a cage of bearing is –
  - a) to keep the bearings together & prevent contact between rolling element & to guide rolling element.**
  - b) to make bearing look beautiful.
  - c) to increase the load bearing capacity.
  - d) None of above
  
3. Main components of bearing are –
  - a) Inner and outer ring
  - b) Cage & Seal
  - c) Rolling Elements (Ball/Roller)
  - d) All of above**
  
4. CNC Machine stands for-
  - a) Charge-man Number Control
  - b) Computer Nomenclature Control
  - c) Computer Numerical Control**
  - d) None of above
  
5. A CNC system basically consists of the following:
  - a) Central Processing Unit (CPU), Servo-control Unit, Operator/Machine Control Panel, Machine Control Panel Programmable Logic Controller**
  - b) Charge-man and computer system.
  - c) Chargeable computer only.
  - d) None of above.
  
6. Directional control valves in hydraulics are essentially used for
  - a) Showing direction of wind in desert
  - b) distribution of energy in a fluid power system**
  - c) Controlling air pressure of machine
  - d) None of above
  
7. Hydraulics relates to -
  - a) fluids and needs oil**
  - b) gas and needs air
  - c) Fuel and needs diesel/petrol.
  - d) None of above

8. Pneumatics relates to -
- a) fluids and needs oil
  - b) gas and needs air**
  - c) Fuel and needs diesel/petrol.
  - d) None of above
9. Direct triggering of a SAC (Single acting Cylinder) by using -
- a) 3/2 way valve.**
  - b) 4/2 way valve.
  - c) 5/2 way valve.
  - d) None of above.
10. In standards of hydraulic hoses, SAE no. 100R1 represents-
- a) Synthetic fiber reinforcement
  - b) Double – textile braid
  - c) single wire braid reinforcement**
  - d) Single textile ply
11. Major cause for hydraulic hose failures are –
- a) Hydraulic hoses cannot fail.
  - b) Multi-plane bending & Non-ideal operating conditions**
  - c) Non regular use of hoses
  - d) None of above
12. Hydraulic pumps are used for
- a) Converting mechanical energy into hydrostatic energy.**
  - b) Converting mechanical energy into chemical energy.
  - c) Converting mechanical energy into electrical energy.
  - d) None of above

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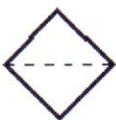
13.



In, hydraulics, symbol shown above is used for –

- a) Hydraulic Pump**
- b) Filter
- c) Pressure relief valve
- d) Gauge

14.



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15. The basic symbol for a valve is –
- a) Cone
  - b) Rectangle**
  - c) Circle
  - d) Parallelogram
16. When machine is allowed to continue work until it cannot perform the function any longer, the required maintenance style is called -
- a) Breakdown Maintenance**
  - b) Preventive Maintenance
  - c) Corrective Maintenance
  - d) None of above
17. The technique to minimize the equipment breakdown & down time both in number & extent comprising of well planned, coordinated inspections, adjustments, repair etc. is called -
- a) Breakdown Maintenance
  - b) Preventive Maintenance**
  - c) Corrective Maintenance
  - d) None of above
18. Preventive Maintenance schedule is based on
- a) the past experience & the present information available in the m/c log book & inspection records.
  - b) data provided by security staff/RPF.
  - c) advertisements in newspapers.
  - d) None of above
19. The unit of energy in MKS system is
- a) Joules**
  - b) Watts
  - c) Power
  - d) Force
20. The ozone layer restricts
- a) Visible light
  - b) Infrared radiation
  - c) X-rays and gamma rays
  - d) Ultraviolet radiation**
21. A half-moon protractor is divided into how many degrees?
- a) 360
  - b) 180**
  - c) 270
  - d) 310



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22. Bronze is an alloy of?
- a) Copper-Zinc
  - b) Copper-Tin**
  - c) Copper-Lead
  - d) Copper and Tungsten
23. The Homolographic projection has the correct representation of?
- a) Shape
  - b) Area**
  - c) Baring
  - d) Distance
24. Capacity of doing work is?
- a) Power
  - b) Newton
  - c) Energy**
  - d) Joules
25. Unit of frictional force in SI units is?
- a) Newton**
  - b) Watts
  - c) Power
  - d) None of above
26. Several of the tools used in traditional drafting include the following?
- a) Parallel straight edge
  - b) 45 degree triangle
  - c) Circle template
  - d) All of the above**
27. The first step in creating a traditional technical drawing is to?
- a) Draw a series of guide lines
  - b) Set up the miter line**
  - c) Align the paper so that it will be positioned square to the parallel bar
  - d) Sharpen the leads in the technical pens
28. A line drawn with a long section, short dash, and another long section is a?
- a) Hidden feature
  - b) Center of a circle
  - c) Center axis of a hidden cylinder**
  - d) Center of a radius
29. Materials with lots of free electrons are called?
- a) conductors**
  - b) insulators
  - c) semiconductors
  - d) filters
30. A constant load power means a uniform conversion of?
- a) mechanical to electrical energy
  - b) electrical to mechanical energy**
  - c) current to voltage
  - d) voltage to current



- 31. A material that does not allow current under normal conditions is called -
  - a) **insulator**
  - b) conductor
  - c) semiconductor
  - d) valence
  
- 32. If the tractive effort is highest for a given velocity, the vehicle must be in -
  - a) **Top Gear**
  - b) First gear
  - c) Second gear
  - d) Third gear
  
- 33. When placed close together, two positively charged materials will?
  - a) attract
  - b) become neutral
  - c) become negative
  - d) **repel**
  
- 34. The quantity of a matter contained in a body is called-
  - a) Density
  - b) Weight
  - c) **Mass**
  - d) Specific Gravity
  
- 35. Single acting Hydraulic cylinder is designed-
  - a) **to apply force in only one direction**
  - b) to apply force in both directions
  - c) where long working strokes are needed.
  - d) None of above
  
- 36. Telescopic Hydraulic cylinder is used -
  - a) to apply force in only one direction
  - b) to apply force in both directions
  - c) **where long working strokes are needed.**
  - d) None of above
  
- 37. The device which completely block the oil flow in one direction while permitting flow in the opposite direction with minimum pressure loss across the valve is called -
  - a) **Non return valve**
  - b) Actuator
  - c) Hydraulic Pump
  - d) Motor
  
- 38. The normal stress in a fluid will be constant in all directions at a point only if
  - a) it is incompressible
  - b) it has uniform viscosity
  - c) it has zero viscosity
  - d) **it is at rest.**



39. The portion where crankshaft is fixed is called as

- a) Crank block
- b) Crank support
- c) **Crank case**
- d) Crank area

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40. Engine Oil should be checked –

- a) Only at petrol pump
- b) During running of engine
- c) **Within two minute after stopping the engine**
- d) None of above

41. Engine valves are opened by –

- a) Camshaft
- b) Crankshaft
- c) **Rocker arm**
- d) Valve Guide

42. The knocking in diesel engine occurs due to -

- a) **instantaneous and rapid burning of the first part of the charge**
- b) instantaneous auto ignition of last part of charge
- c) delayed burning of the first part of the charge
- d) Ignition hold

43. Fluid is a substance which offers no resistance to change of

- a) pressure
- b) **shape**
- c) volume
- d) temperature

44. Density of water is maximum at -

- a) 0°C
- b) 0°K
- c) **4°C**
- d) 100°C

45. ISO 14001 is related to –

- a) **Environmental Management system (EMS)**
- b) Quality Management System
- c) Energy Management System
- d) Health & Occupational Hazard

46. ISO 9001 is related to –

- a) Environmental management system (EMS)
- b) **Quality Management System**
- c) Energy Management System
- d) Health & Occupational Hazard



