

8 ANS KEY
Tick mark the right answer

1. A universal testing machine can be used to perform
 - a. Shear test
 - b. Hardness test
 - c. Fatigue test
 - d. None of these
2. Type of end supports for cantilever beam is
 - a. Fixed-fixed
 - b. Fixed-free
 - c. Simply supported-free
 - d. Both Simply supported
 - e. None of above
3. The moment of inertia of a body depends on
 - a. the angular velocity.
 - b. the angular acceleration.
 - c. the mass distribution.
 - d. the torque acting on the body.
 - e. the linear acceleration
4. Oscillations becomes damped due to
 - a. normal force
 - b. friction
 - c. tangential force
 - d. parallel force
5. Static balancing enforces
 - a. Sum of the forces must be zero
 - b. Sum of the moments must be zero
 - c. Both sum of forces and moments must be zero
 - d. None of the above
6. A point on rigid body under pure rotation with constant angular velocity has
 - e. zero acceleration
 - f. only Centrifugal acceleration
 - g. only Centripetal acceleration
 - h. only Coriolis acceleration
7. Velocity of a point on rigid body under pure rotation is
 - a. normal to both position vector and axis of rotation
 - b. normal to position vector
 - c. normal to axis of rotation
 - d. none of the above
8. Which of the following is not a part of milling machine?
 - a. Arbor
 - b. Clapper Box
 - c. Elevating Screw
 - d. Draw bar
9. A steady rest is used on Engine Lathes to
 - a. cut the threads
 - b. grip the workpiece
 - c. support lathe table
 - d. support long workpieces at the other end
10. Knurling is the process of
 - a. embossing diamond shaped pattern on workpiece surface
 - b. producing taper on cylindrical components
 - c. improving surface finish on the workpiece
 - d. reducing diameter of the workpiece over a narrow surface

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11. Shaper is a machine tool primarily intended to produce
 - a. cylindrical surface
 - b. contoured surface
 - c. flat surface
 - d. All of the above surfaces
12. Internal threads on small diameter pipes are usually cut using
 - a. die
 - b. shaper machine
 - c. tap
 - d. wrench
13. Which hammer is used in welding shop?
 - a. Chipping hammer
 - b. Ball-peen hammer
 - c. Round nose hammer
 - d. Sledge hammer
14. Which of the following is a part of anvil used in smithy shop?
 - a. Hardie hole
 - b. Pritchel hole
 - c. beak
 - d. all of the above
15. During forging operation, the metal must be heated to
 - a. melting point
 - b. red-hot temperature
 - c. room temperature
 - d. slightly higher temperature than melting point
16. Jack planes are used in carpentry shops for
 - a. marking parallel lines to the edge of wood
 - b. making round holes
 - c. cutting along the grains in thick wood
 - d. first truing up of a wood piece
17. Metal is used to make the blade of the chisel is ____.
 - a. Carbon steel
 - b. Steel
 - c. Forged steel
 - d. High carbon steel
18. Which saw is suitable for curve cutting?
 - a. Cross cut saw
 - b. Tenon saw
 - c. Rip saw
 - d. Compass saw
19. Which of the tool used for testing the straightness of large surface?
 - a. Steel rule
 - b. Try square
 - c. straight edge
 - d. Foot rule
20. A thermocouple is used to measure
 - a. Temperature
 - b. Humidity
 - c. Pressure
 - d. Emissivity

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21. Refrigeration capacity is expressed in terms of the following unit:
- Kilo meter
 - kcal
 - kJ
 - One Ton
22. A thermometer is showing a temperature of 27 deg C. Its value in absolute Kelvin scale is
- 300 deg K
 - 310 deg K
 - 297 deg K
 - 273 deg
23. If the area of cross section of a pipe increases in the flow direction, the velocity will
- Increase
 - Decrease
 - remain constant
 - none of the above
24. Coefficient of performance is the ratio of refrigeration effect to
- Isothermal work
 - Adiabatic heat input
 - None of the above
 - Isentropic work
25. For high speed compressors the stroke to bore ratio (L/D) is
- Less than 0.5
 - Greater than 1.0
 - Greater than 2.0
 - None of the above