

## MECHANICAL ENGINEERING

1. What is isolated system?
2. What is the difference between lathe and CNC?
3. What is mechanical engineering
4. What is Irreversible process
5. What is Zeroth law of thermodynamics
6. What is  $C_p$ ,  $C_v$  and  $R$
7. What are compressible and incompressible flows?
8. What is the difference between nozzle and diffuser? Give some examples
9. What is the difference between heat engine and refrigerator?
10. What is Centre of Gravity
11. What is Carnot cycle?
12. What are the types of welds?
13. What is the difference between heat transfer and work transfer?
14. What are the Types of patterns?
15. What is Friction stir welding
16. How defects in weld are tested
17. What are manometers?
18. What is bearing?
19. What is forging
20. Difference between nuclear fission and nuclear fusion?
21. What is law of thermodynamics
22. Difference between thermoplastics and thermosetting plastics
23. Difference between bending, forming and drawing
24. Explain degree of freedom
25. What is cutting speed?
26. Explain the types of strokes performed by internal combustion engine
27. What is draught system in power plants?
28. What is shaft?
29. What is cam?
30. What Do You Mean by Allowance in Limits and Fits?
31. What is buoyancy force?
32. Classify the types of springs?
33. What is difference between fillet and chamfer?
34. What is Simple harmonic motion
35. What do you mean by process planning?
36. List the different types of gas cycles
37. What is Archimedes principle
38. What is the difference between jig and fixtures?
39. Expand CRDI
40. Why lubrication is needed in machines?
41. What is differential used in automobiles?
42. Difference between Pneumatic System and The Hydraulic System



43. Explain the role of simple carburettor in engine
44. What is the difference between SI and CI engine?
45. What is compression ratio
46. What is coupling?
47. What is feed rate?
48. Define Pascals law with day today applications?
49. What is flywheel and why it is used?
50. Difference between impact and shock load?
51. Difference between machine and engine
52. Why speed governors are used in turbines
53. Mention some names of commonly found refrigerants
54. What is torque
55. Name some components of power plant?
56. What is break even analysis?
57. Which key is used in shaft?
58. Define Fatigue?
59. Name some of the flow meters
60. What is CMM
61. What is an Orthographic Drawing?
62. Explain the role of turret In CNC machine
63. What is turbine?
64. List some linear measuring instruments
65. Classify the different types of drives in transmission system
66. What is the difference between stress and strain?
67. State Hooke's Law?
68. Types of clutches in vehicles
69. What is primary difference in facing and turning
70. Explain conduction, convection and radiation with examples
71. Difference between laminar flow and turbulent flow
72. What do you mean by damping?
73. What is viscosity and give some examples of it
74. What is boiler?
75. What is spillway?