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## **4th Class Power Engineering Part A Exam Study Guide with Complete Solutions 2024/2025**

Velocity (m/s) - Correct Answer Change in position / time

Acceleration (m/s<sup>2</sup>) - Correct Answer Change in velocity (m/s) / time (s)

Force (Newton) - Correct Answer mass (kg) x acceleration (m/s<sup>2</sup>) , any action on a body that tends to change its size, shape, or its state of rest or motion

Force of Gravity - Correct Answer mass (kg) x 9.81 m/s<sup>2</sup>

Pressure (Pa) - Correct Answer Force (N) / area (m<sup>2</sup>)

Work (J) - Correct Answer Force (N) x distance (m)

Power - Correct Answer Work done / time , Rate of doing work

Potential Energy (J) - Correct Answer mass x gravity x height , the ability of a body to do work due by virtue of its position

Kinetic Energy (J) - Correct Answer 1/2 x mass x velocity<sup>2</sup> . The ability of a body to do work due to its motion

Energy (J) - Correct Answer The capacity of a body to do work

Tonne - Correct Answer 1000 kilograms

Moment of Force (Nm) - Correct Answer Force (N) x Distance (m) . A force, acting on a body at any distance from a point on that body, will tend to produce rotation around that point

# 4th Class Power Engineer Study Guide

**Lauren Gardner**



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