

Day: MTWTFSS

Date: 16/6/20

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SECTION: B

ASSIGNMENT: II

"NUMERICAL ANALYSIS"

Checked By: Parents: Excellent Good 

QUESTION No 1:

Application of partial differential equation in engineering.

→ To solve the functions with variables, one variable is kept constant and differential co-efficient of other variable is found with respect to variable.

eg

i, time of oscillation, $t = 2\pi\sqrt{l/g}$
ie $t = f(l, g)$

ii, torque $T = l\alpha$
ie $T = f(l, \alpha)$

iii, Pressure of an ideal gas, $p = nRT/v$
ie $p = f(T, v)$.

The differential co-efficient is obtained by partial differential.

→ PDEs are use to solve the wave equation.

Waves equation is differential expressing the properties of motion in waves.