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Class 11Sc Sub Physics(Revision) Dt 17 10 XX

Answer the following in suitable words :-

1 What is differentiation ? Write down the important rules of differentiation.

2 The displacement of a particle is given by $S = 10t + 49t^2$. What is uniform acceleration?

3 Name the scientist who discovered the following) –

a Dynamite b X-ray c Electron d Principle of buoyancy

e Electrostatic force f Laws of motion g Telephone

4 Write down the dimensional formula of the following :-

Pressure, G, Frequency, Density, Relative density, Linear momentum, Acceleration due to gravity.

5 Find the dimension of a x b in the relation

$P = b - x^2/at$; where P is power, x is distance and t is time.

6 State the number of significant figures in the following :

A 2.000 m, B 5100 kg, C 0.050 cm, D 0.0028 joule

7 Establish the 3rd equation of motion by using Calculus method.