SIR CV RAMAN COACHING CENTRE ,IDAPPADI,SALEM

XL PHYSICS – UNIT 1

TOTAL MARK : 30 M

DATE: 16.06.2024

ANSWER ANY TEN QUESTIONS (10 X 3 = 30 M)

1. Find the dimensional formula **planck's (h)** constant
2. Find the dimensional formula **Gravitational** constant (G)
3. Find the dimensional formula **pressure**
4. Find the dimensional formula **Energy**
5. Find the dimensional formula **power**
6. Check the correctness of the equation **½ mv^2 = mgh** using dimensional analysis
7. Check the correctness of the equation **F = mv^2 / r** using dimensional analysis
8. Check the correctness of the equation **s = u t + ½ at^2** using dimensional analysis
9. Check the correctness of the equation **v = u t + at** using dimensional analysis
10. Check the correctness of the equation **s= ½ gt^2** using dimensional analysis
11. Check the correctness of the equation **v^2 = u^2 + at^2** using dimensional analysis
12. Find the dimensional formula **hC /G**
13. Check the correctness of the equation **E = mC^2** using dimensional analysis

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