


# 1st Sessional of Applied Physics for ECE(GNDIT-2019)

In this post, I have uploaded the 1st Sessional of Applied Physics. This Sessional is for the students of Diploma in Electronics and Communication Engineering 1st Semester. This Sessional Paper appeared in 2019th internal examination in Guru Nanak Dev Institute of Technology, college. This Question Paper is prepared by the teachers of Guru Nanak Dev Institute of Technology. I hope you will find this post useful ☐

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**G.N.D.I.T, Rohini Sec-15**

**I Sess. (Electronics & Communication Deptt. (Morning Shift) ECE-I Sem**  
**M.M.- 20 Subject- App. Physics Duration-1:30Hours**

**Part A (1x4)**

Attempt any 4 questions

Q1. (a) Define physical quantity? (b) what are derived units (c) Find out dimension formula of force? (d) what are vector quantities? (e) what is an error? (f) what is a random error?  
(2x2)

Attempt any 2 questions

Q2. (a) state and explain principle of homogeneity of dimension with example?  
(b) What are the types of errors?  
(c) What are the uses of dimension analysis?

**Part B (6x2)**

Attempt any two questions

Q3.(a) Convert a force of 1 newton into dyne using method of dimension?  
(b) check the correctness of  $mgh = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2$ , where m= mass , g= acceleration due to gravity , h=height , v= velocity, I= moment of inertia and  $\omega$ =angular velocity  
(c) Show  $T = 2\pi/l$  is incorrect , find out the correct relation using dimension method?

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