Shree H.N.Shukla group of colleges	
Part and a state	PHYSICS
	T.Y.B.Sc. (Sem. VI) (CBCS)
	Unit Test examination
SHUKLA GROUP UL	PAPER- 602
	UNIT - 1 : CLASSICAL DISTRIBUTION LAW
DATE : TOTAL MARKS : 30	
Instructions: All questions are compulsory.	
	The right side figure indicates total marks of the question.
	Draw the figure wherever necessary.
	Write answers of all the questions in main answer sheets.
SECTION-A	
Q.1: Or	ne marks questions: [5 MARKS]
1	The electrons are regarded as
2	"Fermions" are identical and indistingushable particles with spin.
3	How many coordinates does the phase space have ? Name them.
4	Which type of stastical law is applicable for photons?
5	What is the lest volume for occupied by the Phase cell?
	SECTION – B
Q.2 (A)	: Short Questions: Write all three : [2 Marks each] [6 MARKS]
1	Give the expression for maxwell Boltzman stastics ?
2	Give two examples of each of Boltzons, Femions and Bosons.
3	Find the value of 50 <code>i</code> using striling's aproximation.
O.2 (B)	: Short questions: Write all three: [3 Marks each] [9 MARKS]
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1	State and prove the sterling's aproximation.
2	Give the expression for F-D AND B-E stastics ?
3	Define : Macro states and Micro states.
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]	
1	Define distribution law for Maxwell Boltzman stastics.
2	Define distribution law for Fermi Dirac stastics
2	Define distribution law for Dece. Firstein startise
3	Denne distribution law for Bose - Einstein Stastics.
4	Give comparison between M-B, F-D, and B-E stastics .