Physics	Lahore Board Ninth, 2021	Paper - I
Time: 1.45 Min.	Subjective Type	Marks: 48
	(Group – I)	
2. Write short ar	nswers to any FIVE (5) questions	: (10)
Define base units and derived units		
Define positive and negative zero error of vernier callipers.		
Define prefixes and give two examples.		
	and write its formula.	
Convert 50 Km		
vi Define rest and		
	tion is smaller than the sliding friction	
	etal acceleration and write its formu	- 010111
3. Write short ar	nswers to any FIVE (5) questions	3).
Differentiate be	etween like and unlike parallel force	es.
Define torque	and write its mathematical equation	1.
	nean by centre of gravity?	
	now about "G"? What is its value?	
V Define artificia		
VI) Define orbital	velocity and write its formula.	
vii Define power	and write its formula.	
What is mean	nt by the efficiency of a system?	
4. Write short a	nswers to any FIVE (5) questions	s: (10)
Why strain ha	as no unit? give reason.	
Define elastic	limit.	2 COM
Write down th	ne formula of pressure and strain.	27000
	heat of flusion.	
V What is mean	nt by internal energy?	
What is the e	effect of temperature on evaporation	n?
Vii How does he	at reach us from sun?	
Viii Why does lar	nd breeze blow in the night?	
	PART - II	
Note: Attempt any	Two guestions.	
	on's first law of motion and explain	with the help of two
		4
examples.	from rest with an acceleration of	End ite
(b) A train starts	from rest with an acceleration of	Constitution of the consti
6. Define potenti	al energy, give an example and deriv	ve its equation.
(b) Find the mag	gnitude and directon of a force, if	its X-component is
12N and Y-co	omponent is 5N.	5
7. (a) Sate Pasca	al's law and explain hydraulic press	. 4

(b) Calculate the increase in the length of an aluminium bar 2m long

linear expansion of aluminium is 25×10 K-1

when heated from 0°C to 20°C. The thermal coefficient of