NAME: ALUGAH-DAVID FAVOUR

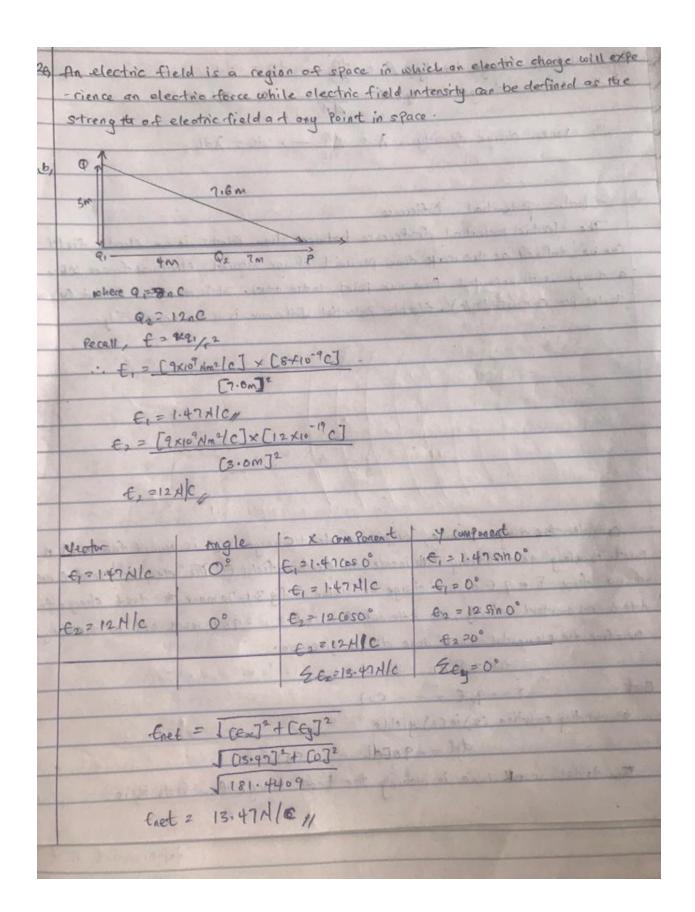
MATRIC NUMBER: 19/MHS02/021

COURSE: PHYSICS 102

**DEPARTMENT: NURSING** 

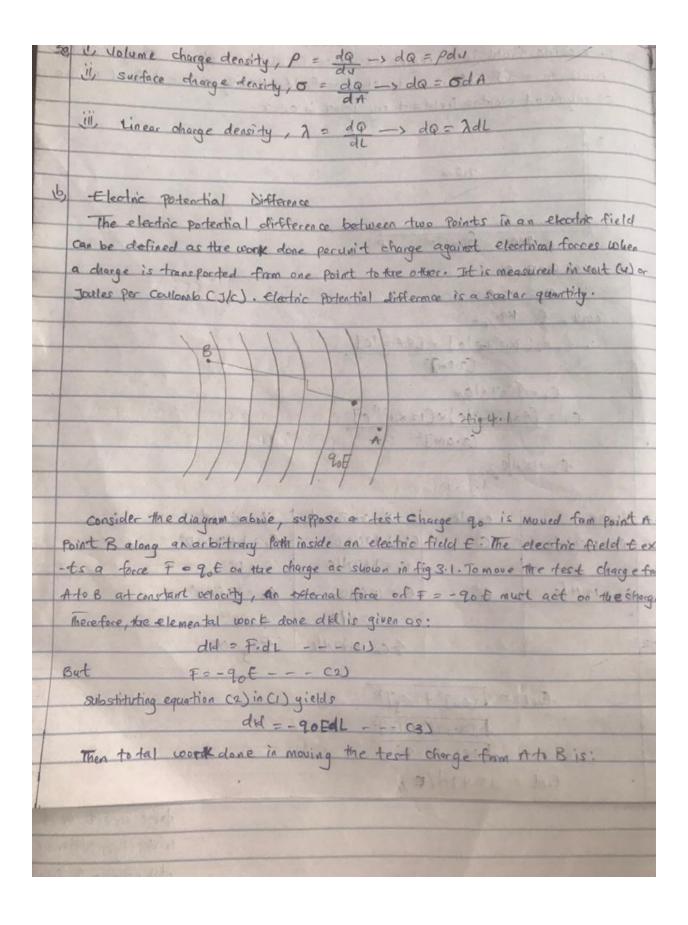
## **ASSIGNMENT**

Questions answered; 2,3,4 and 5



u	11.02 -21.2
	Hyp2 = 32142
	Hyp? = 9+16
	Hyp? = 25
	Hyl= 525
	ttyez s m
	Electric field relative to Point Q
	C, = KQ,
	where the sm
	5 - 2009 x 8, -9
	£, = 9×109 × 8×10-9
	fi= 12 = 8 Alc
7.000	
	E, = RQ2
	where re = 5 m
	E2 = 9×10 × 12×10-9
	52
	E2 = 108 = 4.32 N/C
	725
No.	E2 E1
	36.577
	36.87.
	5m
	3m
1	
	91 4m R2
	sin 0 2 ore ; sin 0 = 3/s sin 0 = 0.6
	Hye

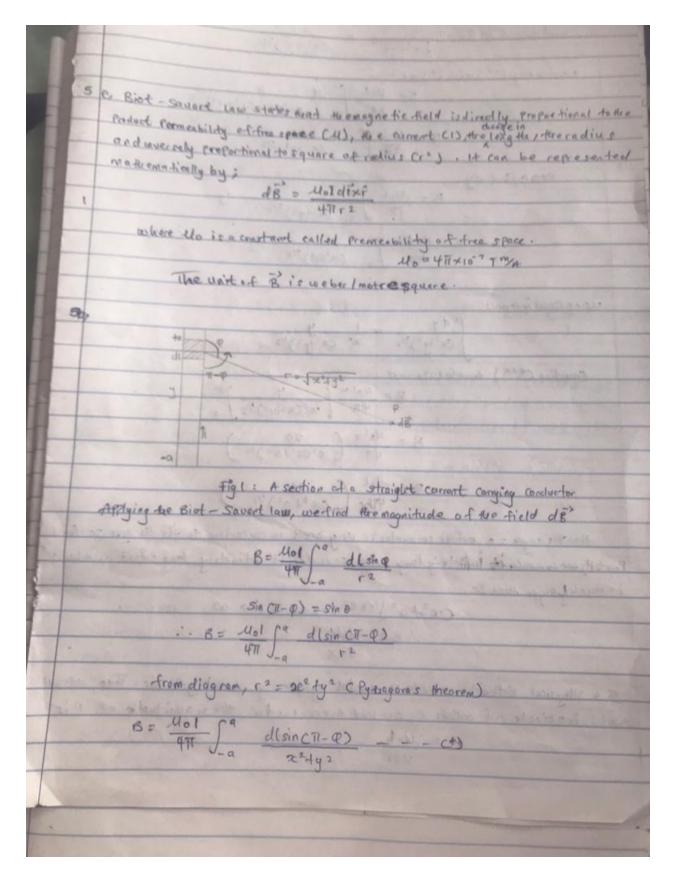
K	m = 01-1				9 95 9	
	0 = 5h-10.				1	
	€ > 36.8	77		116 - 19 M		
K	stude 1		1	The Mark		
1	Vector	Angle	x component	Y can parant	10	
1	E, > 8 N/c	90"	8 002 30, 200	8 sin 90° = 8		
1	E2 24.32N/c	86.87*	4.32 005 36-87	4.32514 36.87°		
1			2 3.46 °	= 2.59		
1			Zfm = 3.46 Ale	2 fg 2 10.59 N/c		
1		21 0 11	The state of the s			
1		[2fo]2+(2fy)2				
1		(3.46)2+(1059)2		W. S		
1		124.1197		Pulsa Lune 3		
	E2 1	1.14 ×1/c			Party -	
				Share Branch		
1	Tan-0 = 15	Efg/ 2/10.	59			
	12fx   13.461					
					-	
	Tant 2	3.06.7		to him a made	-	
		an-1 (3.0607	)	Talk of A Park To	2	
		= 71.91°/		100		
		1	sile si	812108 =4132		
				25		
				2		
			1 2 3 1 1 1 1 1 1 1 1 1 1			
				No.2		
		and.	-		4 34	
			The state of the s	1		
			The state of		1	
			THE RESERVE TO SERVE			
			32	0.04		
			1	ANT E WATER	A Branch	
		20-043	2 2 10 015	9,01		
4			The state of the s			

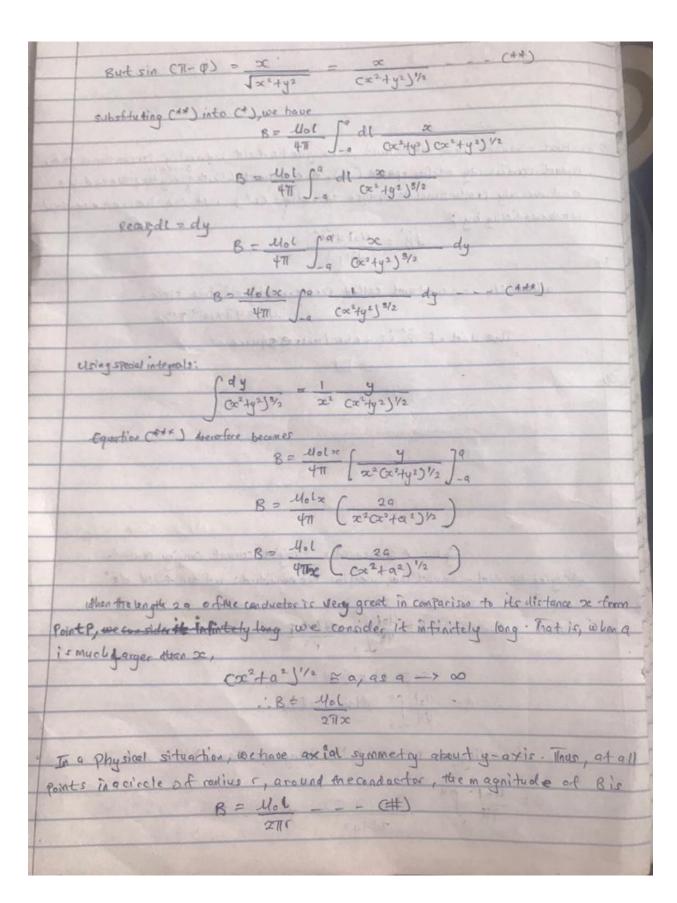


	1910
HCA->B) = -90 56 +dl (4)	1
Jan	
From the definition of electric Potential difference, it follows that:	- 19
· WCA-> 6\	40
VB- Vn = 1-1 CA -> B) ng	
ampt allest and at the	
Puthing equation (4) in (5) yields	
Ve-VA = - 58 €dL C6)	
JA	-
A DIE EL SE DISCOLO DE LA COLOR DE LA COLO	1
Q = 10 ×10 °C	
9	
Vp = K [ 91 + Q2 ]	0.00
5 F 10×10 <sup>-6</sup> (5-2×10 <sup>-6</sup> ) 7	Be
$0 = 9 \times 10^{9} \left[ \frac{10 \times 10^{-6}}{4 + \infty} + \frac{(-2 \times 10^{-6})}{x} \right]$	97
0 = [ 10 × 10-6 - C2×10-6) ]	1
	-
10×10-6 - C2×10-6) = 0	40
44× 20	The same
-6 (1 hrs (2510-6)	0
=10×10 5c -4+xc (2×10-6) = 0	
10×10-62 - 4×2×10-672 - 0	-
# 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
1 (10 ×11) + 2×11 20 × 12	
10×10-6× - 4×2×10-6+2×10-6>e > 0	335
10×10-62 - 8×10-6+2×10-6x = 0	2.30
10×10 620 - 8×10	
4+262	

10×10-6×10-6+2×10-6×20+4+202 10×10-630 = 8×10-6+2×10-630 = 0 1.2×10-50c - 8×10-6 =0 1.2×10 5c = 8×10-6 1.2×1055 1.2×10-5 x 20.666 ~ lm since r, ofte . I would be 7 =4+1 C, = 5M : 1, 25m 12 = 1M/ out of the land of the 1- of open

A Division of the Contract of
4 B. Magnetic flux is defined as the strength of magnetic field re presented by
lines of the strength of magnetic of
lines of two. It is usually represented by the symbol P.
h
6 M=9.11 ×10-31 kg 9=1.602+10-19
(= 1.4×10-7 M
B2 3.5 ×10-1 weber Imerler square
F2 100 100 100 100 100 100 100 100 100 10
w = V/c = 8B/m
w= 98/m (33 163 163 163 163 163 163 163 163 163 1
W= 1.602×10 × 3.5×10-1
9.11×10-31
$\omega = 6.15 \times 10^{10}$ $\simeq 6.2 \times 10^{10}  \text{T}^{-1}  //$
100 201 202
O to Araque him we we arise greenister outles
C, en trequestion we were given paramiders such as
if A radius of 1.4×10-7M
ill magnetic field of 3.5 K10 weber Ineter square;
- And we were asked to find-the ecyclotron frequency which is equal dirthe same triby as
angular speed, It is called cyclotran frequency because it is a frequency of an accelera
tor called cyclotom,
Recall Head w= V = 98
m m
substratingue have w= 98 = 1.602410-19 × 3.5×10-1
m 9.11×10-21
w= 6.15+101° ~ 6.2×10° 7-1/1
So since cyclotron frequency is equal to angular appeal the cyclotron frequency is equal to
30 since egeterior having a unit of T which is equal to the unit of frequency dimensionally.
6.2 × 10 1 / 11 3





Equation (#) defines the magnitude field offlux density B near a long straight correct carrying conductor BOOK BURNES LONGE - CHINE carryed ud to W made has been a product as he will be the trades received (vonte