Quiz #8	
Zain-W-abadeen	
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Phy106 F	
The closed the interest	
The second of th	
Diffrence between Ampere's Law and biot Savort Law:- Biot Savart Law is a basic	
Law and biot Savort Law:-	
· Biot Savast Law is a basic	
general Law to find magnetic	
field while ampère is drived	
after biot Savort Law.	
· Biost Savast Daw gives the magnetic	
field produced by a loop of	
field produced by a loop of any shape while amperes law is	
a simplified and convenient version	
a simplified and convenient version for symmetrical wire and magnetic field configuration. The formula for biot Savart Law is	
field configuration.	
The formula for biot Savart Law	
is go have Lines.	Part of
is $B = U.NI$ it mean it find	
magnetic 2 field of a small region	
of a vive while farmula for	
comperers law is	
magnetic 2R field of a small region of a wive while farmula for ampore's law is find magnetic field of whole conductor.	
field of whole conductor.	
D	

884 Riu ()	
Kain-ul-abadeen (c)	
Ampere's Law:	_
Ampere's Law state that	
the closed line integral	
of magnetic field around	
a current carrying conductor	-
is equal to the	
the total current enclosed	3
the total current enclosed	
in sconductor, squares site + trif	
Formula:	
sizer & B. dl = U.I. was forther	-
The field produced being a foot of the	
Applications of ampère law in	
electionic Lab:	
· Magnetic field due to solenoid:	
Magnetic field due to Solenoid: To find Magnetic field in solenoid ampère Law is used	
$B = U \circ nI$	
where n is number of turns	
per lenght and I is current	
passing through solenoid.	
u. is permiability of	
Tree space	
Monnappe	
William	

· Magnetic Field due to	
· Magnetic field due to a Long wise of Lenght Q:. To find magnetic field of Long wise in which custent is passing through amount	
ind magnetic field of	
Long wise in which custent	
is passing through amperelaw is used	
B - 40/201 - 0000000	
$B = \frac{U_0(2l)}{4ii(8)}$ is expression drived from ampere's law to find magnetic field	
to Find magnetic field	
Magnetic field due to a point of a Toxoid with respect to axis:- To find magnetic field of a	
a point of a Toxoid with	
respect to axis:-	
to find magnetic field of a	
Tosoid ampere's Law is used	
Totoid ampere's Law is used $B = U_0 NI n = N$ $2 \tilde{n} \times \tilde{n} $	
magnetic field of toxoid is	
B= U.nI is expression for magnetic field of toroid is drived from ampere's Law	
B = Call B	
to agree to the first of the formation of the first of th	
	4
Bed be find to any	
The state of the s	