

ٹیسٹ سے پہلے کم از کم تین بار درود شریف پڑھ لیں۔

Student Name:	Roll No:	Date: / /
سوچ بدلیں، معاشرہ بدلیں	Class 2nd Year	Ch#14
T- Marks - 40	Subject: Physics	Time: 45 - M
Objective Type		
Q#1	Encircle the Correct Option	10X1=10

1. Unit of magnetic flux is.

a Weber	b Gauss	c Tesla	d Amper /m ²
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2. High resistance RH that connected in series with galvanometer of resistance Rg convert into volt meter of range V volts is given by

a $V/lg+Rg$	b $V/lgRg$	c $V/lg+lgRg$	d None of these
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3. Galvanometer can be made more sensitive if the value of factor C/NAB is.

a Made large	b Made small	c Remains constant	d None of these
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4. In order to increase the range of volt meter the series resistance is.

a Kept constant	b Decreased	c Increased	d Made zero
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5. Magnetic flux through an area A is.

a $\Phi=E.A$	b $\Phi=E \times A$	c $\Phi=B.A$	d $\Phi=B \times A$
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6. Which of the following is likely to have least resistance .

a Ammeter	b Galvanometer	c VTVM	d Voltmeter
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7. Voltmeter is always connected in circuit .

a Parallel	b Series	c Both A and B	d None
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8. 1 Tesla is equal to.

a $1NA^{-1}m^{-1}$	b $1NA^{-1}m$	c $1NA^{-1}m^{-1}$	d $1Nam$
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9. Magnetic force is simply a.

a Deflecting force	b Reflecting force	c Restoring force	d Gravitational force
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10. Write hand palm rule is rule is used to find the direction .of

a Current	b Emf	c Force	d Temperature
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Q # 2

Short Questions

10 x 2 = 20

1. A place conducting loop is located in uniform magnetic field that is directed along the x axis for what orientation of the loop is the flux a maximum? For what orientation is the flux minimum.
2. Describe the change in the magnetic field inside a solenoid carrying a steady current I if
(a) the length of solenoid is doubled , but the number of turns remains the same and
(b) the number of turn is doubled but the length remains the same.
3. At a given instance proton moves in the positive x direction in a region where there is magnetic field in the negative z direction .what is a direction of the magnetic force will the proton continue move in the positive x direction explain.
4. If a charge particle moves in a straight line through some region of space. Can you say that the magnetic field in the region is zero.
5. How can you use the magnetic field to separate isotopes of chemical element?
6. What is Avo meter by multi meter ?
7. Write a note kethod ray oculoscope ?
8. What is magnetic flux and flux density?
9. State ampere law and determination of flux density?
10. Write the use of CRO?

Q # 3

Long Questions

2 x 5 = 10

1. Find the value of magnetic field that will cause maximum force of $7.0 \times 10^{-3}N$. on a 20.cm straight wire carrying current of 10.0A.
2. Calculate the formula for force on moving charge placed in a magnetic field.