

Test NO.6

UNIT NO. 15+16

-19-(Class :- 10th)

PHYSICS

Time Allowed: 15 Minutes

Paper: (Objective Type)

Maximum Marks: 12

Note : You have four choices for each objective type question as A,B,C and D. The choice which you think is correct fill that circle in front of that question number. Use marker or pen in fills this circle. Cutting or filling two or more circles will result in zero mark in that question.

Q. 1	QUESTIONS	(A)	(B)	(C)	(D)
1.	Transformer are of _____ types.	1	2	3	4
2.	The output of NAND -gate is “0” when.	A = 1, B = 0	A = 0 , B = 1	A = 1 , B = 1	A = 0 , B = 0
3.	MRI helps in diagnose the disorder of.	Brain	Eye	Ear	Kidney
4.	The cathode ray oscilloscope consists of main parts.	2	3	4	5
5.	If we increase current on wire perpendicular in magnetic field, then the magnetic force on wire will be.	Increase	Decrease	Will be zero	Will not change
6.	The output of OR gate will be zero when	A = 0, B = 0	A = 1 , B = 1	A = 0 , B = 1	A = 1 , B = 0
7.	Which thing woks on the principle of electromagnetic induction hydroelectric power house.	Motor	Generator	Galvanic cell	Voltic Cell
8.	George Boole invented.	Boolean algebra	Arithmetic algebra	Mean algebra	Geometry
9.	The presence of magnetic field can be detected by.	Small mass	Stationary positive charge	Stationary negative charge	Magnetic compass
10.	When we het the metal at high temperature they emit.	Holes	Protons	Neutrons	Electron
11.	The direction of induced e.m.f. in a circuit is in accordance with conservation of.	Mass	Charge	Momentum	Energy
12.	In NOT gate number of input terminals is/are	1	2	3	4

A B C D			A B C D			A B C D			A B C D			A B C D		
1	☐ A ☐ B ☐ C ☐ D	4	☐ A ☐ B ☐ C ☐ D	7	☐ A ☐ B ☐ C ☐ D	10	☐ A ☐ B ☐ C ☐ D	13	☐ A ☐ B ☐ C ☐ D			☐ A ☐ B ☐ C ☐ D		
2	☐ A ☐ B ☐ C ☐ D	5	☐ A ☐ B ☐ C ☐ D	8	☐ A ☐ B ☐ C ☐ D	11	☐ A ☐ B ☐ C ☐ D	14	☐ A ☐ B ☐ C ☐ D			☐ A ☐ B ☐ C ☐ D		
3	☐ A ☐ B ☐ C ☐ D	6	☐ A ☐ B ☐ C ☐ D	9	☐ A ☐ B ☐ C ☐ D	12	☐ A ☐ B ☐ C ☐ D	15	☐ A ☐ B ☐ C ☐ D			☐ A ☐ B ☐ C ☐ D		

نوٹ: معروضی سوال نامے کو توجہ سے پڑھیں اور ہر MCQ کی درست آپشن A,B,C,D کو پین کی سیاہی یا مارکر سے اس طرح پُر کریں کہ سیاہی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کٹ کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔

(PART – I)

2.

Write short answers to any Five (5) questions:

(i) What is the difference between a generator and motor?

(ii) Difference between Electricity and Magnetism?

(iii) Make the table of OR operation from two terminal.

(iv) What is Solenoid. What is method to find its poles.

(v) Name two factors which can enhance thermionic emission.

(vi) State Right Hand Rule?

(vii) Write step down transformer with the help of diagram.

(viii) What is Transformer?

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3.

Write short answers to any Five (5) questions:

(i) Make the truth table and symbol of AND gate.

(ii) Define Mutual Induction and Self Induction.

(iii) State Faraday’s law of electromagnetic induction?

(iv) Define NOR gate. Give truth table for NOR operation.

(v) What is step up transformer and Step-down transformer.

(vi) What are Boolean variables?

(vii) What is Fleming left hand rule?

(viii) Define Logic gate.

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4.

Write short answers to any Five (5) questions:

(i) What is D.C. motor and function of split rings in D.C. motor.

(ii) Define Electric lines of force.

(iii) What is A.C. generator?

(iv) Define Electric field lines who introduced them.

(v) What is principle of working transformer?

(vi) Why the anode potential is positive with respect to the cathode potential.

(vii) What is electromagnetic induction?

(viii) How many coils are used in transformer.

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(PART – II)

Note: Attempt any TWO questions.

5.

(a) Define the NOT operation and NOT gate explain it.

(b) What do you know about self-induction and mutual induction explain it.

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6.

(a) What is Transformer. Write its types

(b) Write Faraday’s Law to electromagnetic induction.

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7.

(a) Write a short not A.C. Generator.

(b) A step-up transformer has a turn ratio of 1:100. An alternating supply of 20 v is connected across the primary coil. What is the secondary voltage?

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