

Tick the correct option

10

No	Question	A	B	C	D
1	A travelling disturbance is called:	Wave	Power	Frequency	Time
2	The unit of intensity of sound is:	$\text{Wm}^{-1}$	$\text{Wm}^{-2}$	$\text{Wm}^{-3}$	$\text{Wm}$
3	Lens formula is	$1/P = 1/f + 1/q$	$1/f = 1/p + 1/q$	$1/f = q/p + 1/q$	$1/f = 1/p - 1/q$
4	When Q coulomb of charge flows between the two points having potential difference of V volts then the energy in joules is represented by?	$W=Q/V$	$W=V/Q$	$W=QV$	$W=F.S$
5	The graphical representation of Ohm's law is:	Hyperbola	Ellipse	Parabola	Straight line
6	MRI stands for	Magnetic resonance imaging	Magnetic resistance and current	Magnetic resistance imaginary	None of these
7	A and B are two inputs of NAND gate. Its output would be zero when	A=0, B=0	A=1, B=0	A=0, B=1	A=1, B=1
8	NOT gate is also called	converter	inverter	adder	subs tractor
9	Which refers to computer programs and the manuals that support them?	Software	Hardware	Data	Information
10	Who accidentally discovered that uranium salt crystals emit an invisible radiation that can darken a photographic plate?	Becquerel	Marie Curie	Pierre	Rutherford

## Subjective Section

Attempt any five questions

5x2=10

1. Define Mechanical and Electromagnetic waves with example?

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2. What is meant by refractive index?

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3. Why the focal length of a convex mirror is taken as negative?

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4. State the Coulomb's law.

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5. Define fission and fusion with example?

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6. What is working principle of transformer?

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**Attempt the following long questions**

**2x50=10**

1. What is AND gate? Give its symbols and truth table.

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