


Exercise MCQs

Sr. No.	Questions	A	B	C	D
1	The process by which electrons are emitted by a hot metal surface is known as	Boiling	evaporation	conduction	✓ thermionic emission
2	The particles emitted from a hot cathode surface are	positive ions	negative ions	protons	✓ Electrons
3	The logical operation performed by this gate is 	AND	NOR	✓ NAND	OR
4	AND gate can be formed by using two	NOT gates	OR gates	NOR gates	✓ NAND gates
5	The output of a two-input NOR gate is 1 when:	A is '1' and B is '0'	A is '0' and B is '1'	✓ both A and B are '0'	both A and B are '1'
6	If $X = A.B$, then X is '1' when:	✓ A and B are '1'	A or B is '0'	A is '0' and B is '1'	A is '1' and B is '0'
7	The output of a NAND gate is '0' when	both of its inputs are '0'	✓ both of its inputs are '1'	any of its inputs is '0'	any of its inputs is '1'

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Additional MCQs

Sr. No.	Questions	A	B	C	D
1	The biggest achievement of electronics is	Calculator	✓Transistor	Computer	Mobile
2	The screen of cathode ray tube consist of material	Zinc	Iron	✓Phosphor	Glass
3	The screen of cathode ray oscilloscope is	Reflecting	Refracting	Diffraction	✓Fluorescent
4	CRO is used for	Measurement of voltage	To find range	To show wave form	✓All of these
5	In tungsten filament, the potential given to produce the beam of electrons by thermionic emission	✓6 V	7 V	8 V	9 V
6	In tungsten filament, the current given to produce the beam of electrons by thermionic emission	0.1 A	0.2 A	✓0.3 A	0.4 A
7	One megabyte is equal to	1000 KB	1004 KB	1014 KB	✓1024 KB
8	The output of a two-input OR gate is 0 when	✓A = 0, B = 0	A = 1, B = 1	A = 0, B = 1	A = 1, B = 0
9	In CRO potential of grid is	Positive	✓Negative	Zero	Neutral
10	The equation of AND operation is	✓X = A . B	X = A + B	X = \bar{A}	X = $\bar{A} + \bar{B}$
11	The equation of OR operation is	X = A . B	✓X = A + B	X = \bar{A}	X = $\bar{A} + \bar{B}$
13	The equation of NOT operation is	X = $\bar{A} . \bar{B}$	X = A + B	✓X = \bar{A}	X = $\bar{A} + \bar{B}$
14	The equation of NAND operation is	✓X = $\overline{A . B}$	X = A + B	X = \bar{A}	X = $\bar{A} + \bar{B}$
15	The equation of NOR operation is	X = $\overline{A . B}$	X = A + B	X = \bar{A}	✓X = $\bar{A} + \bar{B}$
16	One byte is equal to	0 bit	1 bit	4 bits	✓8 bits
17	Number of input terminals in NOT gate	1✓	2	3	4