

## Maharashtra Engineering Training Academy, Nashik

Professional Exam Division

Practice Question for AE2/JE Exam - Set 15 - (22/08/2024)

Drawing - Electrical

सदर सराव प्रश्न हे परीक्षार्थींच्या सोईसाठी व सरावासाठी देण्यात येत आहेत. परीक्षार्थींच्या वारंवार मागणीनुसार सदर प्रश्नांची उत्तरे उपलब्ध करून देण्यात येत आहेत. तरी या सराव प्रश्न व उत्तरे यांची खात्री परीक्षार्थींनी आपल्या स्तरावर तपासून पाहणे. या विषयीच्या कुठल्याही तक्रारीची दखल या कार्यालयामार्फत घेण्यात येणार नाही याची नोंद घ्यावी.

Sr. no.	Question	Correct Option	Option 1	Option 2	Option 3	Option 4
1	What does a line diagram in electrical drawing represent?	2	The physical layout of equipment	The electrical connections between components	The detailed specifications of materials	The location of all electrical outlets
2	In an electrical diagram, what does a rectangle typically represent?	2	A switch	A resistor	A relay	A transformer
3	What does the symbol with two parallel lines, one longer than the other, typically indicate?	2	Battery	Capacitor	Diode	Ground
4	What is usually indicated by a dotted line in an electrical drawing?	2	An electrical connection	An invisible or hidden component	A physical boundary	A section view
5	In electrical schematics, what does a symbol with an arrow through a circle typically represent?	3	A switch	A fuse	A relay	A breaker
6	What does the symbol of a single line with a circle at one end represent in electrical diagrams?	4	A switch	A power source	A ground connection	A junction
7	Which symbol represents a light switch in electrical drawings?	3	A circle with a diagonal line through it	A rectangle with two vertical lines	A circle with a vertical line through it	A rectangle with a diagonal line
8	In electrical schematics, what does a zigzag line often represent?	2	Transformer	Resistor	Diode	Battery

9	What does the symbol of a square with a diagonal line through it typically denote?	2	A junction box	A circuit breaker	A capacitor	A relay
10	Which symbol is commonly used to represent an on-off switch?	2	A circle with a diagonal line	A rectangle with a break in the middle	A triangle with a horizontal line	A circle with two concentric circles
11	What does a diamond-shaped symbol usually represent in electrical diagrams?	3	A capacitor	A switch	A relay	A fuse
12	Which symbol is used to represent a light bulb in electrical drawings?	3	Circle with an "X"	Rectangle with a diagonal line	Circle with a dot in the center	Square with an "L" inside
13	In electrical schematics, what does a line with an arrow pointing towards it typically indicate?	1	Direction of current flow	Ground connection	Power supply	Connection to an external circuit
14	What does the symbol of a circle with a cross inside it usually represent?	1	A light bulb	A junction box	A motor	A switch
15	In electrical drawings, what does a symbol with a triangle pointing downwards usually denote?	1	A transformer	A capacitor	A power source	A ground connection
16	What does the symbol of a rectangle with a horizontal line through it typically represent?	3	A lamp	A power source	A resistor	A capacitor
17	Which symbol represents a connection point or node in an electrical drawing?	1	A filled circle	A hollow square	A dashed line	A horizontal line
18	What does a curved line with a circle on one end usually represent in electrical schematics?	1	A wire coil	A capacitor	A connector	A switch
19	What does the symbol of a vertical line with a horizontal line through it represent?	4	A battery	A diode	A switch	A ground connection
20	Which symbol in electrical drawings represents an electrical transformer?	2	Two parallel lines with a connecting line in between	A triangle with horizontal lines	A circle with a horizontal line through it	A rectangle with two lines crossing it
21	What does a series of short, evenly spaced vertical lines in an electrical drawing represent?	3	A capacitor	A transformer	A resistor	A fuse

22	In electrical schematics, what is the purpose of a "bus bar"?	1	To connect multiple circuits together	To regulate current flow	To act as a grounding point	To convert AC to DC
23	What does the abbreviation "AC" stand for in electrical diagrams?	1	Alternating Current	Alternating Current Converter	Active Current	Average Current
24	What symbol represents a circuit breaker in an electrical drawing?	4	A rectangle with a vertical line through it	A square with a diagonal line	A circle with a diagonal line	A rectangle with a line segment inside
25	What does a "dotted" or "broken" line in an electrical drawing usually signify?	1	A hidden connection	A solid electrical connection	An optional connection	A grounded connection
26	Which symbol is used to represent an electric motor in electrical drawings?	2	A rectangle with a circle inside	A circle with an "M"	A square with an "M" inside	A rectangle with an arrow
27	What does a dashed circle typically represent in electrical schematics?	3	A connection point	A capacitor	A coil	A switch
28	Which symbol indicates an on-off switch in electrical diagrams?	1	A line with a break in it	A square with two lines	A circle with an arrow	A triangle with a vertical line
29	In electrical schematics, what does a "parallel" line arrangement usually indicate?	2	Series circuit connections	Multiple parallel components	Ground connections	Power supply
30	What is indicated by a symbol of a rectangle with a "V" inside in electrical drawings?	2	Voltage source	Variable resistor	Vacuum tube	Voltage meter
31	Which symbol is used to represent an electrical generator in diagrams?	1	A circle with a "G"	A rectangle with a diagonal line	A rectangle with a generator icon	A triangle with a circle
32	What does a "coil" symbol typically consist of in electrical drawings?	1	A spiral or series of loops	A series of parallel lines	A circle with a line through it	A rectangle with an "L"
33	In electrical schematics, what does the symbol of a rectangle with a diagonal line usually represent?	2	A battery	A diode	A capacitor	A fuse

34	What does a triangle symbol usually represent in electrical drawings?	1	Transformer	Battery	Relay	Switch
35	Which symbol represents a junction box in electrical diagrams?	1	A square with multiple lines intersecting	A circle with a diagonal line	A rectangle with a vertical line through it	A triangle with a horizontal line
36	What does a symbol of two connected circles typically represent?	4	A battery pack	A capacitor	A relay	A transformer
37	Which symbol in electrical drawings indicates a three-phase power supply?	1	Three lines radiating from a central point	Three parallel lines	A triangle with three lines	A rectangle with three lines
38	What does a vertical line with a horizontal line through it indicate in electrical schematics?	2	A battery connection	A ground connection	A switch	A capacitor
39	Which symbol is used to indicate a relay in an electrical diagram?	1	A rectangle with a coil symbol inside	A circle with an arrow	A square with a diagonal line	A triangle with a horizontal line
40	In electrical schematics, what does a dashed rectangle typically represent?	3	A panel board	An isolated component	A junction box	A transformer
41	What does a circle with a plus sign inside usually represent in electrical diagrams?	1	A battery	A fuse	A capacitor	A resistor
42	Which symbol represents an electrical transformer in a simplified drawing?	3	A rectangle with two lines inside	A circle with two lines	Two parallel lines with a line connecting them	A triangle with lines
43	What does the symbol of a rectangle with a "W" inside typically denote?	2	A switch	A wattmeter	A wall outlet	A transformer
44	In electrical schematics, what does a vertical dashed line usually represent?	1	A hidden connection or component	A ground connection	A power supply	A fuse
45	In electrical schematics, what does a dashed line typically indicate?	3	A physical connection	An electrical connection	A hidden or internal connection	A grounding connection
46	What does a series of connected squares or rectangles in a drawing typically represent?	4	A series of relays	A circuit layout	Multiple switches	A panel board

47	Which symbol represents a fuse in electrical drawings?	1	A rectangle with a diagonal line	A circle with two lines extending outward	A square with an "F" inside	A zigzag line
48	What does "DC" stand for in electrical drawings?	1	Direct Current	Dynamic Current	Distributed Current	Digital Current
49	Which symbol is used for a ground connection in electrical diagrams?	1	A horizontal line with three vertical lines beneath it	A vertical line with a horizontal line crossing it	A circle with a diagonal line	A triangle with a horizontal line
50	What does the symbol of a circle with a letter "M" inside usually represent?	1	Motor	Meter	Main switch	Microcontroller