Current Electricity

Sr	Questions	Answers Choice
1	Electric potential and e.m.f.	A. are the same terms B. are the different terms C. have different units D. both b and c
2	The unit of resistance is:	A. Ω-m B. Ω C. V D. C
3	As the temperature of a conductor rises, its resistance.	A. Increase B. Decrease C. Does not change D. None of these
4	The critical angle for a beam of light passing from water into air is 48.8 degrees. This mean that all light rays with an angle of incidence greater than this angle will be:	A. Absorbed<o:p></o:p> B. Totally reflected<o:p></o:p> C. Partially reflected and partially transmitted<o:p></o:p> D. Totally transmitted<o:p></o:p>
5	Which combination forms NAND gate:	A. AND & OR<o:p></o:p> B. AND & NOT<o:p></o:p> C. NOT & OR<o:p></o:p> D. NAND & NOT<o:p></o:p>
6	The resistance of conductors is due to:	A. Protons B. Fixed atoms C. Molecules D. Neutrons
7	The mirror whose outer surface is reflecting is called:	A. Concave mirror<o:p></o:p> B. Convex mirror<o:p></o:p> C. Mirror<o:p></o:p> D. Lens<o:p></o:p>
8	The distance between principal focus and pole of mirror is called:	A. Principal focus<o:p></o:p> B. Focal length<o:p></o:p> C. Aperture<o:p></o:p> D. Image<o:p></o:p>
9	Which one is a safety device?	A. Switch B. Fuse C. Circuit breaker D. Both B and C
10	A converging mirror with a radius of 20cm creates a real image 30 cm from the mirror. What is the object distance:	A. 5.0 cm<o:p></o:p> B. 7.5 cm<o:p></o:p> C. 15 cm<o:p></o:p> D. 20 cm<o:p></o:p>
11	What type of graph is in between V and I?	A. Curved B. Parabola

		C. Straight line D. None of these
12	If a ray of light in glass is incident on an air surface at an angle greater than the critical angle, the ray will:	A. Refract only<o:p></o:p> B. Reflect only<o:p></o:p> C. Partially refract and partially reflect<o:p></o:p> D. Diffract only<o:p></o:p>
13	In mathematical form of Ohm's law, "R" is:	A. Resistance B. Specific resistance C. Resistor D. Resistivity
14	An electric current in conductors is due to the flow of:	A. Positive ions B. Negtive ions C. Positive charge D. free electron
15	The rate of flow of charge through any cross-sectional area is called:	A. potential difference B. Energy C. Coulomb D. Electric current
16	The resistance of voltmeter is:	A. zero B. low C. Very high D. 10Ω
17	According to Ohm's law V =_____	A. I²R B. IR² C. IR D. I/R
18	Which gate is used for safety alarm:	A. AND<o:p></o:p> B. NANAD<o:p></o:p> C. OR<o:p></o:p> D. NOR<o:p></o:p>
19	The equivalent resistance of a parallel combination is	A. equal to sum of all resistance B. is greater than the largest resistance of combination C. is smaller than the smallest resistance of combination D. All of these
20	The diameter of spherical mirror is called:	A. Curvature<o:p></o:p> B. Aperture<o:p></o:p> C. Sphere<o:p></o:p> D. Both a and b<o:p></o:p>