



RAMAGYA SCHOOL, NOIDA
X A/SCIENCE/2017-18
OLYMPIAD PRACTICE WORKSHEET

Tick the correct options :

Q1: The voltmeter is always connected in _____ across the points between which the potential difference is to be measured.

- (a) series (b) parallel (c) either series or parallel (d) none of these

Q2: : According to Ohm's law,

- (a) The resistance increases with the increases in current.
(b) The resistance increases with the increases in voltage.
(c) The current increases with the increases in voltage.
(d) The resistance and current both increases with the increases in voltage.

Q3: A galvanometer is used to

- (a) measure potential difference
(b) detect the flow and direction of current
(c) measure amount of current flowing
(d) measure electric power of the circuit

Q4: If we double both current and voltage keeping resistance constant then power is

- (a) unchanged (b) halves (c) doubles (d) quadruples

Q5: Amount of energy supplied by current in unit time is called

- a) electric energy (b) friction (c) resistance (d) electric power

Q6: When one of three series resistors is removed from the circuit and the circuit is reconnected then the current will

- (a) increase (b) decrease (c) remain same (d) none of these

Q7: The conversion of $K_2Cr_2O_7$ into $Cr_2(SO_4)_3$ is a process of

- (a) Oxidation (b) Reduction (c) Decomposition (d) Substitution

Q8: An element, which never has a positive oxidation state in any of its compounds, is

- (a) Boron (b) Oxygen (c) Chlorine (d) Fluorine

Q9: Amino acid is formed by decomposition of which component of our diet?

- (a) Carbohydrate (b) Starch (c) Protein (d) Fat

Q10: Loss of electrons is called _____

- (a) reduction (b) oxidation (c) a and b both (d) none of these

Q11. In the reaction, $2\text{FeCl}_2 + \text{Cl}_2 \rightarrow 2\text{FeCl}_3$, chlorine may be regarded as
(a) an oxidizing agent (b) a reducing agent (c) a catalyst (d) providing an inert medium

Q12. In normal expiration, the diaphragm is
(a) Arched (b) Flattened (c) Perforated (d) None of these

Q13. The correct pathway of blood in circulatory system is
(a) atria \rightarrow ventricles \rightarrow arteries \rightarrow veins
(b) ventricles \rightarrow atria \rightarrow veins \rightarrow arteries
(c) ventricles \rightarrow veins \rightarrow arteries \rightarrow atria
(d) veins \rightarrow ventricles \rightarrow atria \rightarrow arteries

Q14. Respiration is a process in which
(a) Energy is stored in the form of ADP
(b) Energy is released and stored in the form of ATP
(c) Energy is used up
(d) Energy is not released at all.

Q15. Waster concentrated in the tubules of Bowman's capsule are called _____
(a) Salt (b) juice (c) Urine (d) Amino Acid

Q16. NASA is related with
(a) Russia (b) Japan (c) USA (d) UK

Q17. Who is know as 'IRON MAN' of India ?
a)Lala Lajpat Rai b) Dr. B. R. Ambedkar
c)Sardar Vallabh Bhai Patel d) Gopal Krishan Gokhale

Q18. Which of the following is softest
a) Aluminium b) Sodium c)Lithium d) Iron

Q19. The number of medals won by India in Common Wealth Games is.
a) 98 b) 101 c) 107 d) 115

Q20. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph?

a) Sister b) Aunty c) Grandmother d) Daughter
