



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

Tick the correct options :

Q1: The SI unit of electric charge is \_\_\_\_\_

- (a) volts (V)                      (b) ampere (A)                      (c) coulomb (C)                      (d) tesla (T)

Q2: By convention, the charge on a glass rod that has been rubbed with silk is called

- (a) Positive                      (b) Negative                      (c) either positive or negative                      (d) none of these

Q3: Two charged bodies having equal potential are connected through a conducting wire, in this case

- (a) current will flow                      (b) current will not flow  
(c) cannot say                      (d) current will flow if a resistor is connected.

Q4: The Potential Difference between two terminals can be measured by \_\_\_\_\_

- (a) an ammeter                      (b) a voltmeter                      (c) an ohmmeter                      (d) a rheostat

Q5: The net charge flowing through a cross section of a conductor in unit time is known as

- a) electric current                      (b) volt                      (c) resistance                      (d) electric potential

Q6: Which of the following correctly represents the relation among Charge (Q), Potential difference (V) and Work done (W)

- (a)  $V = W \times Q$                       (b)  $W = V / Q$                       (c)  $V = Q / W$                       (d)  $V = W / Q$

Q7: Which of the following is *not* an oxidising agent?

- (a) Oxygen                      (b) Conc. Sulphuric acid                      (c) Chlorine                      (d) Hydrogen

Q8: The oxidation reaction which produces heat and light is

- (a) endothermic                      (b) photochemical                      (c) combustion                      (d) exothermic

Q9: What is the chemical name of quick lime ?

- (a) Calcium oxide                      (b) Calcium carbonate                      (c) Calcium hydroxide                      (d) Carbon dioxide

Q10: A slow combustion in which glucose present in the body cells combine with oxygen to provide energy is:

- (a) digestion                      (b) excretion                      (c) respiration                      (d) none of the above

Q11. The kidneys in human beings are a part of the system for

- (a) nutrition                      (b) respiration                      (c) excretion                      (d) transportation

Q12. The xylem in plants are responsible for

(a) transport of water    (b) transport of food    (c) transport of amino acids    (d) transport of oxygen

Q13. The autotrophic mode of nutrition requires

(a) carbon dioxide and water    (b) chlorophyll    (c) sunlight    (d) all of the above

Q14. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

(a) cytoplasm    (b) mitochondria    (c) chloroplast    (d) nucleus

Q15. Movement of food through oesophagus is due to

(a) Lubrication by saliva    (b) Peristalsis    (c) Gravitational Pull    (d) All of the above

Q16. Where is bile produced?

(a) Gall bladder    (b) Blood    (c) Liver    (d) Spleen

Q17. A is son of C while C and Q are the sisters to one another. Z is the mother of Q. If P is the son of Z, Which one of the following statements is correct ?

A. Q is the grandfather of A

B. P is the maternal uncle of A

C. P is the cousin of A

D. Z is the brother of C

Q18. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?    a\_bbc\_aab\_cca\_bbcc

A. bacb

B. acba

C. caba

D. abba

Q19. Name the Mars orbiter that in recent past captured a region of Mars sprayed with strange-shaped secondary craters.

a) Deep Space 2 Probes

b) Mars Odyssey

c) Mars Reconnaissance Orbiter

d) Mars Express Orbiter

Q20. UN is going to issue special stamps to commemorate which International Day?

a) World Environment Day

b) World Day Against Child Labour

c) World Refugee Day

d) International Day of Yoga

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