



RAMAGYA SCHOOL, NOIDA

X/SCIENCE/2017-18

OLYMPIAD PRACTICE WORKSHEET

- Q 1. The sign \downarrow indicates
- (a) Release of gas (b) Dissolution of gas
(c) Formation of a precipitate (d) Lowering of temperature
- Q 2. What is pH?
- (a) The positive logarithm of the hydroxide ion concentration
(b) The positive logarithm of the hydrogen ion concentration
(c) The negative logarithm of the hydroxide ion concentration
(d) The negative logarithm of the hydrogen ion concentration
- Q 3. Which of the following is not a halfmetal?
- (a) Silicon (b) Boron
(c) Arsenic (d) Chlorine
- Q 4. Covalent Compounds are generally (Pick the correct choice from the following)
- (a) Soluble in water (b) Insoluble in water
(c) Ionize in water (d) Hydrolyze in water
- Q 5. As we move from top to bottom in a group in modern periodic table, generally atomic size of elements
- (a) Increases (b) Decreases
(c) Remains same (d) Approaches zero
- Q 6. Where is bile produced?
- (a) Gall bladder (b) Blood
(c) Liver (d) Spleen
- Q 7. Part of brain that controls respiration, heartbeat and peristalsis is ____.
- (a) Cerebrum (b) Cerebellum
(c) Pons (d) Medulla
- Q 8. The testes perform the following function/functions:
- (a) Produce testosterone (b) Produce sperms
(c) Produce male gametes and hormone (d) Produce sperms and urine

- Q 9. Forelimb of frog, lizard, bird and man has some evolutionary relationship. This are
(a) Hand relationship (b) Missing links
(c) Analogous organs (d) Homologous organs
- Q 10. Light travels fastest through which of the following materials?
(a)Diamond (b)Water
(c)Glass (d)Air
- Q 11. Which of the following optical phenomenon is used in cinematography or movie projectors?
(a) Accommodation (b) Persistence of vision
(c) Interference (d) Short sightedness
- Q 12. A galvanometer is used to
(a) Measure potential difference (b) Detect direction of current
(c) Measure amount of current flowing (d) Measure electric power of the circuit
- Q 13. Inside the magnet the field lines run
(a) From south to north (b) Away from North Pole
(c) From north to south (d) Away from the South Pole
- Q 14. A solar water heater cannot be used to get hot water on
(a) A sunny day (b) A cloudy day
(c) A hot day (d) A windy day
- Q 15. Which are sensitive to sulphurdioxide pollution?
(a) Algae (b) Mosses
(c) Lichens (d) Ferns
- Q 16. Vinay starts walking towards East. After walking 35 km, he turns to his right and walks another 40 km. He then turns right and walks another 35 km. Finally, he turns right and walks 20 km. How far is he from the starting point and in which direction?
(a) 20 km, North (b) 35 km, South
(c) 20 km, South (d) 35 km, North
- Q 17. Eight friends P, Q, R, S, T, U, V and W are sitting around a circle facing the centre. V is third to the right of Q and is second to the left of R. Q is second to the left of T and on the immediate right of S. U is between Q and T. P is not on the left of R. Which of the following is the correct position of W?
(a) On the immediate left of V (b) On the immediate right of V
(c) Between U and V (d) On the immediate right of R

Q 18. Pointing to a photograph, a woman says, "He is the only son of the wife of my husband's father". How is the man related to the woman?

- (a) Son (b) Son-in-law
(c) Brother-in-law (d) Husband

Q 19. The given question is based on the 5 three-digit numbers given below:

517 394 823 976 465

If the position of the first and the second digits in each of the above numbers are interchanged, which of the following will be the third digit of the highest number?

- (a) 7 (b) 4
(c) 3 (d) 6

Q 20. A mechanic has two pieces of sandpaper of different sizes. Each piece is in the shape of a circle. The radius of the larger circle is 4 times the radius of the smaller circle. The area of the larger circle is how many times the area of the smaller circle?

- (a) 2 (b) 4
(c) 8 (d) 16