RAMAGYA SCHOOL, NOIDA
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OLYMPIAD PRACTICE WORKSHEET

<u>Tick the correct options :</u>

Q1: A battery of 12V is connected in series with resisters of 0.2 ohm, 0.3 ohm, 0.4 ohm, 0.5 ohm and 12 ohm. How much current would flow through the 0.3 ohm resistor?

(a) 0.895A   (b) 1.11A   (c) 0.5A   (d) none of these

Q2: Among which of the following resistance does not depend:

(a) Length of conductor   (b) area of cross-section   (c) temperature   (d) density

Q3: In parallel combination of electrical appliances, total electrical power

a) Increases   b) Decreases   c) Does not change   d) Remain same.

Q4: The total work done by an electrical appliance during its operation, is called electrical

a) Current   b) Power   c) Energy   d) Potential

Q5: The number of joules in 1kWh is
a) 3.6×10^7 b) 3.6×10^6 c) 3.6×10^5 d) 3.6×10^4

Q6: Lamps of 40 watt & 60 watt are connected in parallel, the total power of combination is

a) 40 watt   b) 60 watt   c) 24 watt   d) 100 watt

Q7: One of the constituents of baking powder is sodium hydrogen carbonate, the other constituent is
a) hydrochloric acid   b) tartaric acid   c) acetic acid   d) sulphuric acid

Q8: To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is
a) acidic   b) neutral   c) basic   d) corrosive

Q9: The pH of the gastric juices released during digestion is
a) less than 7   b) more than 7   c) equal to 7   d) equal to 0

Q10: Which one of the following can be used as an acid–base indicator by a visually impaired student?
a) Litmus   b) Turmeric   c) Vanilla essence   d) Petunia leaves

Q11. Which of the following substance will not give carbon dioxide on treatment with dilute acid?

   a) Marble   b) Limestone   c) Baking soda   d) Lime

Q12. Which of the following is acidic in nature?

   a) Lime juice   b) Human blood   c) Lime water   d) Antacid

Q13. Which life process converts chemical energy into heat energy?

   (a)Nutrition   (b) Respiration   (c) Excretion   (d) Transpiration

Q14. Which of these is the simplest food?

   (a)Rice   (b) Wheat   (c) Butter   (d) Glucose

Q15. Which of the following organisms is a saprophyte?

   (a)Yeast   (b) Ascaris   (c) Leech   (d) Vulture

Q16.What is the role of bile during digestion?

   (a)Emulsification of fat   (b) Digestion of fat
   (c)Absorption of fat   (d) Assimilation of fat

Q17. The food is stored in which form in leaves?

(a) Glucose   (b) Fructose   (c)Glycogen   (d)Starch

Q18. How many pairs of letters in the word 'CHAIRS' have as many letters between them in the word as in the alphabet?

 a) 2   b) 3   c) 1   d) 4

Q19. How many 4's are there preceded by 7 but not followed by 3?

5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 2 5 6 7 4 3 9 5 8 2 0 1 8 7 4 6 3

a) Four   b) Three   c) Six   d) Five

Q20. 'Soldier' is related to 'Army' in the same way as 'Pupil' is related to ……….
(a) Education
(b) Teacher
(c) Student
(d) Class