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X/SCIENCE/JUNE(2018-19)
OLYMPIAD PRACTICE WORKSHEET

Tick the correct options :

Q1: A battery of 12V is connected in series with resistors 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. Right part of human heart contains-

- a) Oxygenated blood
- b) Mixed blood
- c) Deoxygenated blood
- d) No blood

Q14- The process of digestion of food in humans begin in-

- a) Stomach
- b) Food pipe
- c) Mouth
- d) Small intestine

Q15- Pancreatic juice contains enzymes which digests-

- a) Proteins and fats only
- b) Proteins and carbohydrate only
- c) Fats and carbohydrate only
- d) Proteins, carbohydrates and fats

Q16- Which of the following will have the longest small intestine-

- a) Carnivore
- b) Herbivore
- c) Omnivore
- d) Autotroph

Q17- The first enzyme to mix with food in the digestive tract is-

- a) Pepsin
- b) Cellulose
- c) Amylase
- d) Trypsin

Q18- Which of the following metal is associated with haemoglobin ?

- a) Aluminium
- b) Iron
- c) Potassium
- d) Zinc

Q19- Which of the following organism can live without oxygen of air-

- a) Amoeba
- b) Sheep
- c) Yeast
- d) Leech

Q20- Respiration is a process in which

- a) Energy is stored in form of ATP
 - b) Energy is used up
 - c) Energy is released and stored in form of ATP
 - d) Energy is not at all released
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