



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

1. What is the next number in the pattern below?

125, 150, 175, 200, ...?....

- a) 205 b) 215 c) 225 d) 250

2. How many triangles are there in the given figure?

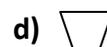
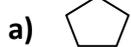


- a) 15 b) 18 c) 17 d) None of these

3. Hill 1 is 5,729 meters high. Hill 2 is 4,049 meters high. How much higher is Hill 1 than Hill 2 ?

- a) 1,720 m b) 680 m c) 1,680 m d) 1,239 m

4. Which could be one of the faces of a cylinder ?



5. . If 'a' means '+' ; 'b' means '-' ; 'c' means ',' and 'd' means 'x', then the expression $16 a 4 b 4 c 4 d 2 =$

- (A) 10 (B) 7 (C) 18 (D) 1 2 2

6. The doctor who treats bone related problems is called as _____

- a) Dentist
b) Neurologist
c) Orthopaedician
d) Dermatologist

7. Which of the following are the characteristics of all living things?

- a) Reproduce
b) Exchange gases
c) Do not have a brain
d) Both A and B

8. To protect silk and woollen clothes we must use _____.

- a) Medicines
b) Naphthalene balls
c) Medicines
d) Benzene solution

9. When Suresh blows air into balloon, it expands which shows which property of air?
- Air has no mass.
 - Air has volume and occupies space,
 - Air has no weight.
 - Air is invisible.
10. What would you get when you combine two or more elements and no chemical process takes place ?
- Mixture
 - Compound
 - Solution
 - Liquid
11. This form of matter takes neither the shape of the container nor the volume of its container.
- Solid
 - Liquid
 - Gas
 - None of the above
12. Which of the following is a mixture?
- Lemonade
 - Iron filings in sand
 - Pepsi
 - All of these
13. The metal used to make an aircraft must be _____ and _____.
- Waterproof and heavy
 - Flexible and strong
 - Light and strong
 - Hard and shiny
13. Which of the following is chemical change?
- Melting of ice
 - Burning of paper
 - Bending of copperwire
 - Breaking of glass
14. Which of the following organ helps is to speak?
- Tongue
 - fooMouth
 - Teeth
 - Throat

15. Simran is a 14 years old girl. How many teeth is she likely to have?
- 20
 - 32
 - 28
 - None of these
16. Which of the following sets only contains mammals?
- Lion, hens, human beings
 - Lions, goats, whale
 - Tigers, sheep, crocodile
 - Birds, butterfly, frog
17. Which of these is not a reptile/
- Lizard
 - Frog
 - Turtle
 - Crocodile
18. A student observed that birds sit on their eggs before the eggs hatch into young ones. The reason behind it is _____.
- To protect the eggs
 - To keep the eggs warm
 - To hide the eggs
 - To make the eggs stronger
19. Which part of a plant produces seeds?
- Flower
 - Fruit
 - Root
 - Stem
20. A _____ of a seed contains food and nutrients for a growing embryo.
- Seed coat
 - Cotyledon
 - Leaf
 - None of these
21. Which part of a plant captures carbon dioxide?
- Stem
 - Flower
 - Leaf
 - Root

22.) Which one of the following statements is correct? Statement 1: Aquatic plants can't perform the process of photosynthesis. Statement 2: Aquatic plants can perform the process of photosynthesis.

- a) Statement 1
- b) Statement 2
- c) Both statements are correct
- d) Both statements are incorrect

23. Match the following:

List - I		List - I	
A.	Liquid → Solid	1.	Melting
B.	Vapour → Liquid	2.	Evaporation
C.	Solid → Liquid	3.	Freezing
D.	Liquid → Vapour	4.	Condensation

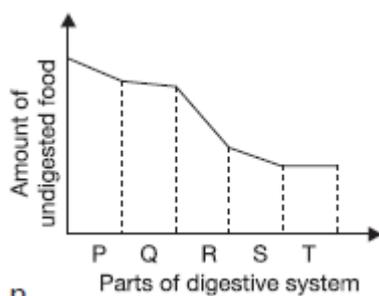
- a) 3 4 1 2
- b) 2 1 3 4
- c) 4 1 2 3
- d) 1 2 3 4

24. _____ + Solvent = Solution

- a) Liquid
- b) Solute
- c) Gas
- d) Oil

25. The given graph shows the changes in the amount of undigested food as it progresses through the alimentary canal. Select the incorrect option regarding the parts labelled as P, Q, R, S, T.

- a) Q and T are oesophagus and large intestine respectively.
- b) P represents mouth where 30 % of carbohydrate is digested.
- c) S represents small intestine where both digestion and absorption takes place.
- d) R is the stomach, the primary site of digestion of carbohydrate and protein.



26 .Mohan wants to test the presence of starch in leaf . Which of the chemicals will be required for testing?

- a) Alcohol and iodine
- c) Iodine

- b) Alcohol
- d) None of these

27. Consider the following statement and choose the correct option

Statement A : Synthetic fibers are durable.

Statement B : Synthetic fibers not wrinkle free.

- a) Statement A is correct and B is wrong
- c) Both the statements are wrong

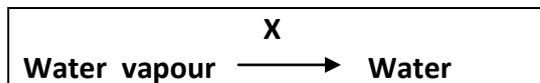
- b) Statement B is correct and A is wrong
- d) Both the statements are false

28. When we add sugar to water and dissolve it, what happens to the level of water?

- a) Water level increases
- c) Water level remains same

- b) Water level decreases
- d) None of these

29. Which does“x” represent in the box given below?



a) Condensation

b) Melting

c) Heating

d) Freezing

30. The smell of the perfume spreads quickly form one corner of the room to other because_____.

- a) Gases can flow easily
- c) Gas have fixed volume

- b) Molecules are tightly packed
- d) Gas have fixed shape