KH🛕J-2025

Exam for Young Scientists..!

SCHOLARSHIPS up to ₹5 Crore

SAMPLE QUESTIONS PAPER

CLASS 5

SCIENCE APTITUDE TEST

INSTRUCTIONS

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Caution : Class, as given on paper above MUST be correctly marked on the answer OMR sheet before attempting the paper. Wrong Class will give wrong results.

1. This booklet consists of 75 questions. Question paper consists of 4 sections. Marking scheme is given in table below:

Section	Subject	Questions No.	Making Scheme for each questions	
			Correct Answer	**Wrong Answer**
PART - **I**	Mental Ability	15	4	-1
PART - **II**	Mathematics	30	4	-1
PART - **III**	Physics & Chemistry	20	4	-1
PART - **IV**	Biology	10	4	-1

3. Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.

4. Blank papers, cellular phones, smart watches, log tables, slide rule, calculator and electronic devices, in any form, are not allowed.

PART - I : MENTAL ABILITY

1. A man is facing north-west. He turns 90° in the clockwise direction, then 180° in the anticlockwise direction and then another 90° in the same direction. Which direction is he facing now?
   (a) South   (b) South-west
   (c) South-east   (d) East

2. Pointing to a boy in the photograph, Monika said, "His sister is the only daughter of my father". How is the boy related to Monika's father?
   (a) Nephew   (b) Father
   (c) Son   (d) Brother

3. Look at this series: 36, 34, 30, 28, 24, ... What number should come next?
   (a) 20   (b) 22
   (c) 23   (d) 26

4. Look at this series: 3, 4, 7, 8, 11, 12, ... What number should come next?
   (a) 7   (b) 10
   (c) 14   (d) 15

5. Find the missing term: BAC, GFH,LKM,?
   (a) QPR   (b) PQR
   (c) RQP   (d) None of these

6. BF, CH, ?, HO, LT. Complete the series
   (a) FJ   (b) EK
   (c) EM   (d) DN

7. If water is called food, food is called tree, tree is called sky, sky is called wall, on which of the following does a fruit grow?
   (a) Water   (b) Food
   (c) Tree   (d) Sky

8. Find the odd one out
   (a) Cell phone   (b) Racket
   (c) Laptop   (d) Kindle

9. Right is related to correct in the same way as brave is related to
   (a) Coward   (b) Mean
   (c) Courageous   (d) Silly

10. Introducing Kuhu, Veena said, "She is the sister of the son of the wife of my husband". How is Veena related to Kuhu?
    (a) Aunt   (b) Sister
    (c) Mother   (d) Daughter

11. 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

12. If South-East becomes North, North-East becomes West and so on. What will West become?
    (a) North-East   (b) North-West
    (c) South-East   (d) South-West

13. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?
    (a) 246173   (b) 214673
    (c) 214763   (d) 216473

14. Show the same relationship as given in the below questions.
    Biped : Quadruped :: Ostrich : ?
    (a) Cat   (b) Kangaroo
    (c) Penguin   (d) Duck

15. Find the number of triangles in the given figure

    (a) 5   (b) 6
    (c) 8   (d) 10

Space for Rough Work
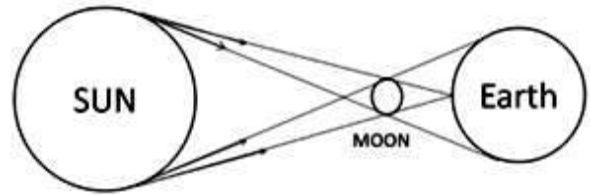
PART - II : MATHEMATICS

1. Which of the following fractions is equivalent to $\frac{1}{2}$?

(a) $\frac{2}{4}$ (b) $\frac{3}{5}$ (c) $\frac{4}{6}$ (d) $\frac{5}{8}$

2. If a rectangle has a length of 10 units and a width of 3 units, what is its area?

(a) 10 square units   (b) 13 square units

(c) 30 square units   (d) 33 square units

3. What is the smallest prime number?

(a) 0   (b) 1   (c) 2   (d) 3

4. What is the sum of $\frac{3}{4}$ and $\frac{1}{4}$?

(a) $\frac{1}{2}$ (b) 1   (c) $\frac{7}{8}$ (d) $\frac{1}{8}$

5. If you count by tens starting from 0, what is the fourth number in the sequence?

(a) 20   (b) 30   (c) 40   (d) 50

6. How many millilitres are in a litre?

(a) 10   (b) 100

(c) 1000   (d) 10000

7. What is the least common multiple (LCM) of 4 and 9?

(a) 12   (b) 18   (c) 27   (d) 36

8. If a clock's hour hand is on the 4 and its minute hand is on the 12, what is the angle between the hands?

(a) 30°   (b) 45°   (c) 120°   (d) 90°

9. How many millimetres are in a meter?

(a) 10   (b) 100

(c) 1000   (d) 10000

10. What is $\frac{1}{2}$ of 10?

(a) 1   (b) 20   (c) 5   (d) 10

11. If you have a rectangular garden that is 15 meters long and 9 meters wide, what is the area of the garden in square meters?

(a) 24 square meters

(b) 105 square meters

(c) 135 square meters

(d) 144 square meters

12. $101 \div 0 =$

(a) 101   (b) 0

(c) 1   (d) Not defined

13. $\frac{1}{4}^{th}$ of a day will be

(a) 24 hours   (b) 12 hours

(c) 8 hours   (d) 6 hours

14. A pentagon has ____ diagonals

(a) 3   (b) 4   (c) 5   (d) 10

15. A number co-prime to 8 will be

(a) 6   (b) 8   (c) 16   (d) 7

16. A triangle with two sides equal is called

(a) Equilateral triangle

(b) Isosceles triangle

(c) Scalene triangle

(d) Obtuse triangle

17. $10 \div (2 \times 5) =$

(a) 10   (b) 25   (c) 2   (d) 1

18. Zero is greater than any negative integer.

(a) True   (b) False

(c) Sometimes   (d) Can't say

19. 49 litre = ____ ml

(a) 49000   (b) 4900

(c) 490   (d) 49

20. A ray contains ____ points

(a) One   (b) Two

(c) Ten   (d) Infinite

21. Andy has Rs. 2000 with him. His friend borrowed Rs. 850 from him. How much money is left with Andy?

(a) 1200   (b) 1150

(c) 1350   (d) None

Space for Rough Work

22. Which of the following number is the greatest?
    (a) 1   (b) 0.199
    (c) 0.01   (d) 0.998

23. (-25) + (25) =
    (a) 50   (b) –50   (c) 0   (d) 10

24. 50 ml = ___ litre
    (a) 0.05   (b) 0.5   (c) 500   (d) 50

25. Jenny gets Rs. 50 from her parents every day. How much money will she have at the end of month of November if she doesn't spend a single rupee?
    (a) 500   (b) 1500
    (c) 1550   (d) 1150

26. The successor of 3647 will be
    (a) 3648   (b) 3646
    (c) 3650   (d) 3645

27. The roman notation of 49 will be
    (a) XXXXIX   (b) XLIX
    (c) LXIX   (d) XLXI

28. A cricket pitch is about 324 cm. in metres it will be equal to
    (a) 32400   (b) 324
    (c) 32.4   (d) 3.24

29. Largest 7 digit number will be
    (a) 1000000   (b) 9999998
    (c) 9999999   (d) 8999999

30. Predecessor of 9999 will be
    (a) 10000   (b) 9999
    (c) 9998   (d) 8888

PART - III : PHYSICS & CHEMISTRY

1. What does the given picture is showing?

   (a) Solar eclipse   (b) Lunar eclipse
   (c) Star eclipse   (d) Both [a] and [b]

2. Brightest planet visible to naked eye is _____.
   (a) Venus   (b) Mars
   (c) Jupiter   (d) Mercury

3. Sources of energy that can be used again and will never run out.
   (a) Renewable energy
   (b) Non-renewable energy
   (c) Both (a) and (b)
   (d) None of these

4. Which of the following is an example of simple machines?
   (a) Screw   (b) Wheel and axle
   (c) Bicycle   (d) Both (a) and (b)

5. What is the force that stops a rolling marble?
   (a) Gravity   (b) Friction
   (c) Air resistance   (d) Up thrust
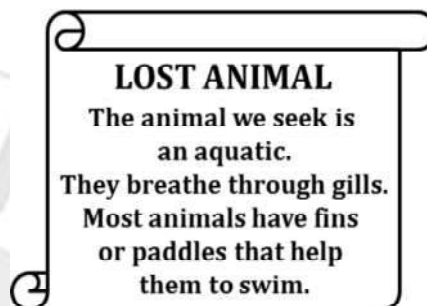
Space for Rough Work

6. Bouncing back of light rays after striking a surface is known as ___.
   (a) Spectrum (b) Dispersion
   (c) Reflection (d) Refraction

7. Which among the following is correct?
   (a) White light is a combination of seven colours.
   (b) Light travels in a straight line.
   (c) Light can travel in vacuum.
   (d) All the above

8. Which of the following units is used to measure speed?
   (a) Kilometres
   (b) Kilometre per hour
   (c) Kilograms
   (d) Grams per second

9. SI unit of work is.....?
   (a) N (b) J
   (c) W (d) m

10. Which of the following precautions should be taken while using a scale to measure length of an object?
    (i) Scale should be placed parallel to the object
    (ii) Observations should be taken by keeping eye vertically above the end of the object.
    (iii) Observations should be taken by keeping eye vertically above the zero mark.
    (a) Only [i] (b) Only [ii]
    (c) Both [i] & [ii] (d) Both [i] & [iii]

11. The minimum amount of gas in the air is
    (a) Nitrogen (b) Bromine
    (c) Argon (d) Oxygen

12. Which gas helps in burning?
    (a) Nitrogen (b) Oxygen
    (c) Carbon dioxide (d) All of these

13. Human body contains water upto.
    (a) 90% (b) 50%
    (c) 70% (d) 80%

14. Clouds are formed due to
    (a) Only evaporation
    (b) Only condensation
    (c) Both evaporation and condensation
    (d) Only vaporisation

15. Which of the following is not matter
    (a) Dust (b) Sodium
    (c) Feeling of cold (d) Cup

16. What is the state of matter that has no definite volume and Shape
    (a) Gas (c) Liquid
    (c) Plasma (d) Solid

17. Which of the following not Natural resources?
    (a) Natural gas (b) Coal
    (c) Plastic (d) Water

18. What is the percentage of carbon dioxide present in air?
    (a) 0.34 % (b) 0.03%
    (c) 0.003% (d) 1.%

19. Plants obtain Nitrogen from
    (a) human (b) animals
    (c) Soil (d) Water

20. Which of the following gases protects us from ultra violet rays?
    (a) Oxygen (b) Helium
    (c) Carbon dioxide (d) Ozone

Space for Rough Work

PART - IV : BIOLOGY

1. The chemical used to increase fertility of soil are called
   (a) Fertilizer   (b) pesticides
   (c) Tranquilizers   (d) None

2. Which solution is given when a person is suffering from vomiting and loose motion?
   (a) ORS   (b) fruit juice
   (c) milk   (d) None

3. Which part of the tounge taste sweet?
   (a) Front   (b) Back
   (c) Middle   (d) None

4. Malaria is caused by the bite of
   (a) female anphelese mosquito
   (b) house fly
   (c) honey bee
   (d) mosquito

5. Which nutrient is known as a body building material
   (a) fats   (b) carbohydrates
   (c) vitamins   (d) protein

6. What is the nature of digestive juice in the stomach?
   (a) acidic   (b) basic
   (c) neutral   (d) All

7. Name the seeds which disperse by water
   (a) Lotus   (b) Rose
   (c) marigold (d) All

8. What is the step of farming when the crop is ready to cut is called
   (a) sowing the seed   (b) Irrigation
   (c) Storage   (d) Harvesting

9. Look at the given poster. Based on the given information, which of the following statements is true about the lost animal?

LOST ANIMAL
The animal we seek is an aquatic.
They breathe through gills.
Most animals have fins or paddles that help them to swim.

Choice
(a) lives on land
(b) they are herbivores
(c) lives in water
(d) gives birth to young ones

10. Baby of X breathes through its gills whereas adult X breathes through its lungs on land. X could be
    (a) Whale   (b) Crocodile
    (c) Tortoise   (d) Frog

Space for Rough Work