



MANAV RACHNA INTERNATIONAL SCHOOL

Scholarship Test Paper

For

Students Studying in Grade – V (Session 2022-23)

Moving to Grade VI - Session 2023-24

Date: 26.11.2022

Duration: 2 Hours

M.M.: 100

KINDLY FILL IN THE DETAILS

Name: _____

Father's Name: _____

Mother's Name: _____

Examination Centre: Manav Rachna International School _____

Name and Signature of the Invigilator: _____

GENERAL INSTRUCTIONS:

This paper is divided into 4 sections

SECTION – A: Logic and Reasoning: 20 marks (Each question carries 2 marks)

SECTION – B: English: 20 marks (Marks have been mentioned against the questions)

SECTION – C: Math: 30 marks (Each question carries 1 mark)

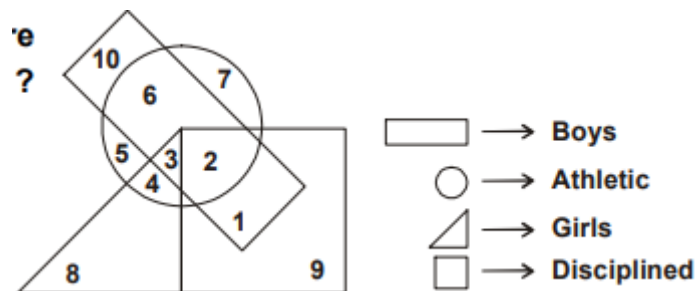
SECTION – D: Science: 30 marks (Each question carries 1 mark)

- All sections are compulsory.
- Read each question carefully before answering.
- **Objective Questions need to be tick marked in the question paper itself and submitted.**
- **Subjective Questions need to be attempted in the answer sheets provided and submitted.**

SECTION A LOGIC AND REASONING

- Q1. In a row, Kumar is at 7th place from the left and Pawan is at 9th place from the right. When they interchange the positions Kumar becomes 11th from left. How many were seated in the row?
- a) 19 b) 20 c) 21 d) 27
- Q2. Raj is son of Tarun. Sarika, Tarun's sister has a son Rajat and a daughter Priya. Sanjeev is the maternal uncle of Rajat. How is Raj related to Rajat?
- a) Nephew b) Father c) Uncle d) Cousin

- Q3. The group of words when arranged form a sentence. Put the words in the correct order:
 A. there was a wolf
 B. come when I
 C. called out that
 D. why didn't you
- a) DCAB b) ADBC c) DBCA d) DCBA
- Q4. Arrange the words given below in a meaningful sequence:
 1. Key 2. Door 3. Lock 4. Room 5. Switch on
- a) 5,1,2,4,3 b) 4,2,1,5,3 c) 1,3,2,4,5 d) 1,2,3,5,4
- Q5. It was Sunday on Jan. 1, 2006. What was the day of the week on Jan 1, 2010?
- a) Sunday b) Saturday c) Friday d) Wednesday
- Q6. A river flows west to east and on the way turns left and goes in a semi-circle round a hillock, and then turns left at right angles. In which direction is the river finally flowing?
- a) West b) East c) North d) South
- Q7. Four usual dice are thrown on the ground. The total of numbers on the top faces of these four dice is 13 as the top faces showed 4, 3, 1 and 5 respectively. What is the total of the faces touching the ground?
- a) 12 b) 13 c) 15 d) Cannot be determined
- Q8. Mara runs faster than Gail.
 Lily runs faster than Mara.
 Gail runs faster than Lily.
 If the first two statements are true, the third statement is
- a) true b) false c) uncertain d) Data Insufficient
- Q9. If the day before yesterday is two days after Monday then what day is it today?
- a) Monday b) Tuesday c) Wednesday d) Saturday
- Q10. In the given diagram, the girls who are athletic are indicated by which number?



- a) 1 b) 3 c) 4 d) 6

**SECTION B
ENGLISH**

Q1. Read the passage given below carefully and answer the questions that follow. (10 Marks)

You know that you're doing something big when your company name becomes a verb. Ask Xerox. In 1959 they created the first plain paper copy machine. It was one of the most successful products ever. The company name Xerox grew into a verb that means "to copy," as in "Bob, can you Xerox this for me?" Around 50 years later, the same thing happened to Google. Their company name grew into a verb that means "to do an internet search." Now Google is a name known in all households.

Unlike Xerox, Google wasn't the first company to invent their product. Lycos released their search engine in 1993. Yahoo! came out in 1994. AltaVista began serving results in 1995. Google did not come out until years later, in 1998. Though a few years difference may not seem like much, this is a major head start in the fast moving world of tech. So how did Google overtake the competitors who had such huge leads in time and money? Maybe one good idea made all the difference.

To understand how Google changed the game, you need to know how search engines worked in 1998. Back then most websites looked at the words in your query. They counted how many times those words appeared on each page. Then they might return pages where the words in your query appeared the most. This system did not work well and people often had to click through pages and pages of results to find what they wanted.

Google was the first search engine that began considering links. Links are those blue underlined words that take you to other pages when you click on them. Larry Page, cofounder of Google, believed that meaningful data could be drawn from how those links connect. Page figured that websites with many links pointing at them were more important than those that had few. He was right. Google's search results were much better than their rivals. They would soon become the world's most used search engine.

The Google search engine has changed our lives and our language. Not only is it a fantastic product, it is a standing example that one good idea (and a lot of hard work) can change the world.

1. What does Google mean? (2)
2. Which company released the first search engine? (2)
3. How is meaningful data drawn while searching on Google search engine? (2)
4. What is the author's main purpose in writing this article? (Open-ended) (2)
5. Find the synonyms of the words given below from the above passage. (1)
 - a) bearing in mind
 - b) symbol
6. Give a suitable title to the passage. (1)

Q2. WRITING TASK**(10 Marks)**

High buildings, the Metro train, shopping malls, big parks, wide roads, etc. attract people to live in metro cities. However, traffic jams, pollution, crime, and insecurity disappoint them. Write a paragraph in 120-150 words on the topic 'Disadvantages of Living in a Big City'.

OR

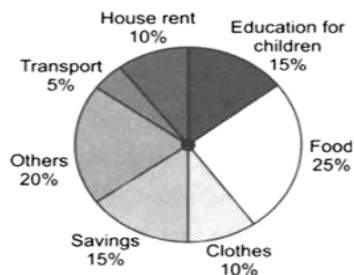
Many of us spend hours in front of our computers and communicate more by using e-mail or instant-messaging than in person. Some people believe that it is good as it helps shy people communicate more openly with others. Others believe that computer communication prevents us from developing interpersonal skills and limits our ability to have meaningful relationships with others. How do you feel about this issue? Write a paragraph using specific reasons and examples to support your position. (120-150 words)

**SECTION C
MATH**

- Q1. Kirti rented a scooty for 330 minutes. How much did she pay for it? Rate is as follows:
First hour ₹ 8.75 and every additional half an hour ₹ 5.25
- a) ₹ 56 b) ₹ 49 c) ₹ 48.75 d) ₹ 55.25
- Q2. 0.7499 lies between
- a) 0.7 and 0.74 b) 0.75 and 0.79
c) 0.749 and 0.75 d) 0.74992 and 0.75
- Q3. If the area of a square is numerically equal to the perimeter of the square, then the side of square is _____
- a) 2 units b) 3 units c) 4 units d) 5 units
- Q4. If diameter of a circle is base of a triangle. If vertex of the triangle is exactly at the middle of the arc in which triangle is. By which one of the following name the triangle can be denoted?
- a) an equilateral triangle b) a scalene triangle
c) an isosceles triangle d) none of these
- Q5. Read the statements and choose the correct option.
Statement A: $10 \div 2 = 2 \div 10$
Statement B: $12 + 8 \div 2 = 10$
- a) Both statements are true b) Both statements are false
c) Only A is true d) Only B is true
- Q6. If two lines intersect each other exactly between two parallel lines then what is the number of triangles formed?
- a) 3 b) 2 c) 4 d) 5

- Q7. Add R to the number 8, the result is divisible by 14. R could be the following except _____.
- a) 6 b) 8 c) 20 d) 34
- Q8. Two toy cars start at the same time. The first one stops after every 5 seconds and the second one stops after every 4 seconds. How many times do they stop together in 1 minute?
- a) 4 b) 2 c) 3 d) 5
- Q9. An angle of a right angled triangle is y and the other angle is $\frac{3}{2}$ of y. Find the angles of the triangle.
- a) $36^\circ, 54^\circ, 90^\circ$ b) $46^\circ, 44^\circ, 90^\circ$
c) $56^\circ, 34^\circ, 90^\circ$ d) none of these
- Q10. The perimeter of a rectangle is $\frac{7}{5}$ of the perimeter of a square with area 25 sq.m. The perimeter of the rectangle is _____m.
- a) 7 b) 14 c) 20 d) 28
- Q11. Evaluate using BODMAS. $(3+3-5) \times (15-5) \times 10 - 99$
- a) 2 b) 6 c) 8 d) 1
- Q12. A piece of string was cut into 12 equal pieces. The length of 5 such pieces is $\frac{15}{8}$ m. Find the length of the original piece of string.
- a) 4.5 m b) 7.8 cm c) 0.9 m d) 8.4 m
- Q13. A box full of buttons has a mass of 2 kg. When it is $\frac{1}{3}$ full, its mass is only 800g. What is the mass of the box?
- a) 200 g b) 400 g c) 850 g d) 150 g
- Q14. The length of the shadow of a 168 cm tall person at a particular time of day is 252 cm. What will be the length of the shadow of a 158 cm tall person at the same time of the day?
- a) 437 cm b) 237 cm c) 507 cm d) 138 cm
- Q15. A 35.08cm long wire is cut into 2 pieces. One piece is bent into a square of side 2.8cm. What is the length of the other piece?
- a) 23cm b) 24.88cm c) 24cm d) 23.88cm

- Q16. The HCF of two numbers is 8. Which one of the following can never be their LCM?
 a) 24 b) 48 c) 56 d) 60
- Q17. The value of $0.25 \div 0.0025 \times 0.025$ of 2.5 is
 a) 0.625 b) 6.25 c) 625 d) 62.5
- Q18. $3263 \times 246 - 18611 = ? + 5883$
 a) 897071 b) 778204 c) 989090 d) 797090
- Q19. Which of the following statements is correct?
 a) Every prime number is odd
 b) Every even number is composite
 c) The sum of two odd numbers is odd
 d) The HCF of two given numbers is always a factor of their LCM
- Q20. Determine the number nearest to 100000 but greater than 100000 which is exactly divisible by 8, 15 and 21.
 a) 100200 b) 100800 c) 240800 d) 260040
- Q21. How long will a car travel from 5.30 am to 12 noon at the speed of 64km/h?
 a) 408 km b) 416 km c) 466 km d) 446 km
- Q22. * is half the average of the 6th and 10th multiple of 7. Find *
 a) 38 b) 56 c) 60 d) 28
- Q23. The product of 214 and a number is X. Taking 49 away from X gives 1449. Find the number.
 a) 7 b) 9 c) 1498 d) 1640
- Q24. 5000 decagram = _____ kg
 a) 50 b) 500 c) 5 d) 0.5
- Q25. The circle graph shows the expenditure (in percentages) on various items and savings of a family during a month. Read the graph and answer the following question:
 If the monthly savings of the family is ₹ 3000, then what is the monthly expenditure on clothes?



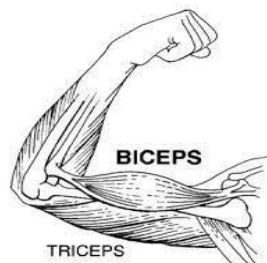
- a) ₹ 2000 b) ₹ 3000 c) ₹ 2500 d) ₹ 3500

- Q26. 70% of students in a class are girls and 70% of the girls have chosen soccer as their favourite sport. If 98 girls have chosen soccer as their favourite sport, what is the total number of students in the class?
- a) 180 b) 225 c) 175 d) 200
- Q27. There are 3 numbers. The first number is the successor of the second number. The second number is the third multiple of the third number. If the third number is the 8th multiple of 752, find the first number.
- a) 18047 b) 18048 c) 18050 d) 18049
- Q28. If we divide the sum of 45 and 90 by their difference, the answer is ____
- a) The least odd prime number b) Neither prime nor composite
c) The least prime number d) The least composite number
- Q29. Select the correct combination of mathematical signs to replace # signs and to balance the given equation.
12 # 6 # 15 # 87 = 0
- a) - × + b) × + - c) + - × d) + × -
- Q30. How will the area of a square change if its side is tripled?
- a) 6 times the original area b) 12 times the original area
c) 27 times the original area d) 9 times the original area

SECTION D SCIENCE

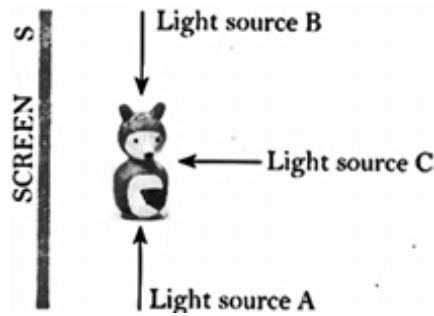
- Q1. Identify the Load, fulcrum and effort from the given figure and match the following columns.

- | | |
|---|---|
| <p>p) Load</p> <p>q) Effort</p> <p>r) Fulcrum</p> | <p>1) Elbow joint</p> <p>2) Hand</p> <p>3) Biceps and Triceps</p> |
|---|---|



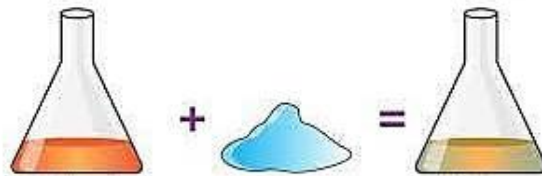
- a) p-1, q-2, r-3 b) P-2. q-3, r-1 c) p-3, r-2, q-1 d) p-2, q-1, r-3

Q2. On the basis of figure given below light from which source will form shadow on the screen S?



- a) Light source A
- b) Light source B
- c) Light source C
- d) Both A and B

Q3. Sneha dissolved 3 teaspoons of sugar in a glass of water. Identify the solute, solvent and solution respectively from the given options.



- a) water, sugar, sugar solution
- b) sugar solution, water, sugar
- c) sugar, water, sugar solution
- d) sugar, sugar solution, water

Q4. In which of the following processes is oxygen used up?
(i) burning (ii) respiration (iii) photosynthesis

- a) Only (i) and (ii)
- b) Only (ii) and (iii)
- c) Only (i) and (iii)
- d) (i), (ii) and (iii)

Q5. In a thunderstorm light reaches first to the earth's surface than sound because:

- a) Speed of sound is equal to speed of light.
- b) Speed of light is much more than the speed of sound.
- c) Speed of sound is more than speed of light.
- d) All the above

Q6. Read the following statements and choose the correct option:
Statement 1: A boy pushing against a wall does no work.
Statement 2: Work is said to be done, when an object moves (displaces) along the direction of application of force.

- a) Statement 1 is correct but statement 2 is incorrect
- b) Statement 1 is incorrect but statement 2 is correct
- c) Both the statements are correct and statement 2 is the correct explanation of statement 1
- d) Both the statements are correct and statement 2 is not the correct explanation of statement 1

Q7. Match the following articles and character given

- (a) Clay (i) Transparent
 (b) Glass (ii) Shiny
 (c) Metal (iii) Brittle

- a) a - (iii), b - (ii), c - (i)
 c) a - (iii), b - (i), c - (ii)

- b) a - (ii), b - (iii), c - (i)
 d) a - (i), b - (ii), c - (iii)

Q8. Look at the given figures of upper arm and lower arm and choose the correct option.



- a) Upper arm shows contraction of biceps and relaxation of triceps.
 b) Lower arm shows contraction of biceps and relaxation of triceps.
 c) Upper arm shows relaxation of biceps and contraction of triceps.
 d) None of these

Q9. The below data compares four characteristics of inner planets

Characteristic	Planets			
	Mercury	Venus	Earth	Mars
Temperature	-184°C to 527°C	-450°C to 477°C	-89°C to 58°C	-143°C to 17°C
Mass (kilograms)	3.30×10^{23}	4.87×10^{24}	5.97×10^{24}	6.42×10^{23}
Diameter (kilometers)	4,854	12,112	12,751	6,788
Distance from Sun (millions of kilometers)	58	108	150	228

Which statement best explains that earth is the best planet to support life?

Statement 1 : The other planets have too much mass

Statement 2 : The other planets are either too hot or too cold.

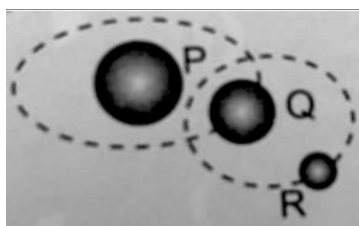
Statement 3 : The other planets are too big or too small.

Choose the correct statement:

- a) Statement 1 and 2
 c) Statement 2 only

- b) Statement 1 only
 d) statement 3 only

Q10. Refer to the given figure, Identify P, Q and R and select the correct statement.

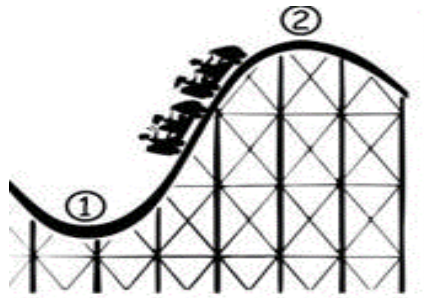


- a) Movement of Q around P causes changes in season.
- b) In total lunar eclipse, R is completely masked by the shadow of Q.
- c) In total solar eclipse, R masks P completely.
- d) All of these

Q11. Sedimentation and decantation are useful to separate

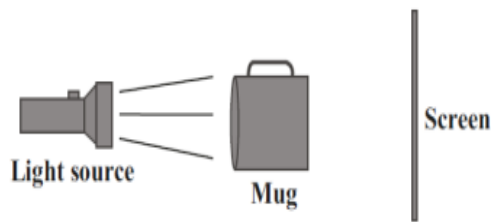
- a) Immiscible liquids
- b) Soluble solid from liquid
- c) Insoluble solid from liquid
- d) Insoluble solid from a liquid where the solid is heavier than the liquid

Q12. A roller coaster is shown in the figure, at point 1 and 2. At what point kinetic energy is maximum?



- a) Point 1
- b) Point 2
- c) Both
- d) None

Q13. Which one of the following shadows will be formed on the screen?



- a)
- b)
- c)
- d)

Q14. Observe the given figure. Which of the following is correct for P, Q and R?

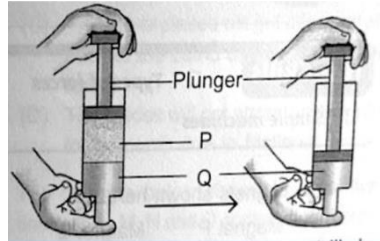


- | | P | Q | R |
|----|----------|----------------|----------|
| a) | Lever | Wheel and axle | Lever |
| b) | Pulley | Wheel and axle | Lever |
| c) | Lever | Pulley | Lever |
| d) | Lever | Wheel and axle | Pulley |

Q15. 'P' has weight and occupies space. It takes the shape of its container but it cannot be compressed. What could 'P' be among the following?

- a) A tomato b) Hydrogen gas c) A syrup d) A sponge

Q16. Two substances, P and Q, were filled in a syringe. The plunger was then pushed in as shown in the diagram.



Which of the following would most likely be P and Q?

- | | P | Q |
|----|----------|--------------|
| a) | Oil | Salt |
| b) | Rice | Oxygen |
| c) | Air | Water |
| d) | Flour | Water Vapour |

Q17. The slower the molecules move the _____ will be the temperature of that body.

- (a) higher (b) lower (c) same (d) none of the above

Q18. Riya accidentally touches a hot surface and then quickly pulls her hand away. Which two systems in the human body were involved with her action and reaction?

- a) Nervous and Muscular b) Skeletal and Circulatory
c) Nervous and Respiratory d) Muscular and Respiratory

Q19. Which of the following adaptation is not found in a fish?

- a) Streamlined body b) Air bladder to float on the surface of water
c) Wading limb to swim and wade d) Fins to swim and maintain balance in water

Q20. What does the given sign mean?



- a) School ahead b) Hospital ahead c) Drive Slowly d) Danger of electric shock

Q21. The given picture depicts which of the processes of the change of matter?



- a) Sublimation b) Evaporation c) Condensation d) Vaporization

Q22. Why is large intestine called so?

- a) It is longer than small intestine
b) Its role is more important than small intestine
c) It is the largest part of the body
d) It is broader than small intestine

Q23. Which of the following is an example of a container filled with a mixture rather than a pure substance?

- a) An empty bottle filled with air b) A jar filled with distilled water
c) A balloon filled with helium d) An iron nail

Q24. Why the lid of a lunch box with hot food inside is difficult to open after some time?

- a) Hot food makes the lid sticky
b) Lid is usually pressed too hard to prevent spillage of hot food
c) Air pressure outside the box is higher than inside
d) Vapours are formed inside the box

Q25. Which one of the following is an example of incandescent object?

- a) star fish b) firefly c) Sun d) Halogen lamp

Q26. Electrical impulse travels in a neuron from-

- a) dendrite-axon-axonal end-cell body b) dendrite-axon-cell body-axonal end
c) dendrite-cell body-axon-axonal end d) cell body-dendrite-axon-axonal end

Q27. The water near the poles in the Great Conveyor Belt sinks due to

- a) cold water b) salty water c) cold and salty water d) warm water

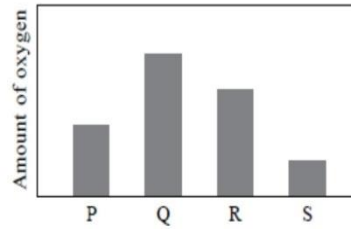
Q28. Two boys A and B are applying force on a block. If the block moves towards the boy A, which one of the following statements is correct?

- a) Magnitude of force applied by A is greater than that of B.
b) Magnitude of force applied by A is smaller than that of B.
c) Net force on the block is towards B.
d) Magnitude of force applied by A is equal to that of B.

Q29. When liquids are heated, they-

- a) expand more than gases but less than solids
- b) expand more than solids but less than gases.
- c) do not expand.
- d) none of the above

Q30. In the given figure P,Q,R and S are the blood vessels carrying oxygenated blood.



Which blood vessel do you think travels from lungs towards heart?

- a) P
- b) Q
- c) R
- d) S

ANSWER SHEET FOR ENGLISH

Name of the Student: _____
