MANAV RACHNA INTERNATIONAL SCHOOL
Scholarship Test Paper
For Grade – VI (Session 2022-23)
Current Grade of the Student - V (Session 2021-22)

Date: 19.02.2022
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.   Which of the pictures in the answer options represent the description "White colour, Shirt, Saree" best?
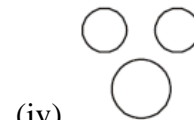

(i)   (ii)   (iii)   (iv)

a) i   b) ii   c) iii   d) iv

Q2.   If the position of 1st and the last digit of the given numbers are interchanged, what will be the last digit of the smallest number?
741,   379,   546,   872,   569

a) 7   b) 3   c) 5   d) 8

Q3. In a secret code ELEPHANT is written as TNAHPELE. How will ATMOSPHERE be written?

a) EREHPSOMAT   b) EREHPSOMTA
c) EERHPSOMTA   d) EREHPOSMTA

Q4. The following letters are numbered. Arrange the letters to form a meaningful word. What would the combination of the word in numbers be?

R	G	O	N	A
1	2	3	4	5

a) 5,4,1,2,3   b) 1,5,4,3,2   c) 3,1,2,5,4   d) 2,1,5,4,3

Q5. Choose the figure which is different from the rest. Give reason for your answer.

A   B   C   D

a) A   b) B   c) C   d) D

Q6. Find the number of triangles in the given figure.

a) 8   b) 12   c) 10   d) 14

Q7. Select a suitable figure from the four alternatives that would complete the matrix.

(1)   (2)   (3)   (4)

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

Q8.   If car is called truck, truck is called bicycle, bicycle is called lorry- then which of the following does not use petrol?

a) car   b) truck   c) bicycle   d) lorry

Q9.   I am a three digit number. My second digit is four times bigger than my third digit. My first digit is three less than my second digit. Who am I?

a) 281   b) 141   c) 163   d) 930

Q10. What is the largest possible number of points of intersection of the figures if a circle and two distinct lines are drawn on a sheet of paper?

a) 3   b) 7   c) 9   d) 5

SECTION B
ENGLISH

Q1.   **Read the passage answer the questions that follow-**
In eastern Africa, a volcano rises more than 19,000 feet into the sky. It's Mount Kilimanjaro, one of the world's tallest mountains. Every year thousands of people try to climb to the top. Fewer than half succeed.

Montannah Kenney of Texas beat the odds. She climbed the mountain with her mom last year, when she was just 7! She was one of the youngest climbers to reach the peak. "It felt great to reach my goal," Montannah says.

Her adventure began about two years ago. Montannah found out her mom was planning to climb Kilimanjaro. She begged to go too. "I wanted to see what it was like above the clouds," she says. The Kenneys knew it was important to be prepared. They practiced hiking on hills near their home. They did research as well. They discovered that they had to be ready for all kinds of weather. The bottom of Kilimanjaro is warm but the top is snowy and cold.

The Kenneys also learned that climbers can get altitude sickness. This illness can be caused by climbing very high too quickly. So they planned a route that would let them go slow.

Montannah and her mom set off in March 2018. Guides showed them the way. Other helpers cooked meals and carried supplies.

But even with teamwork, the six days climb to the top was tough. The group hiked for nine hours or more each day. And it rained or snowed almost the whole time. That made the mountain slippery.

One day Montannah felt sick to her stomach. She and her mom worried that it might be altitude sickness. They thought about turning back. But after resting for a bit, Montannah felt better. She refused to give up. Two days later, she made it to the top of the mountain.

"I was finally above the clouds!" she says.

Today, Montannah wants other kids to know they can reach their goals too. She tells them to plan ahead, use teamwork, and stick with it.
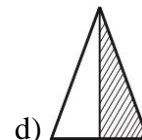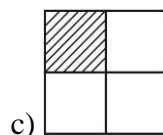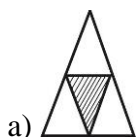
"You can do it!" she says.

Based on your reading and understanding of the above passage, answer the questions given below:

a.	How did the Kenneys prepare for the hike?	1
b.	What is altitude sickness?	1
c.	Was the hike easy or difficult? Give reasons for your answer.	1
d.	What is Montannah's message to other kids?	1
e.	What does the expression 'beat the odds' mean?	1
f.	Supply a suitable title to the passage.	1
g.	If you could describe Montannah in four words, what would they be?	2
h.	Find out words from the passage which mean the same as-	2

i. dangerous   ii. provisions

Q2. Write a paragraph in 150-200 words about a new skill something that you have recently learned and how is it helping you to be your better self.   10

SECTION C
MATH

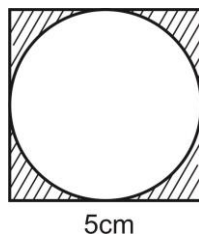Q1. In which figure does the shaded part represent $1 - \dfrac{1}{3} = ?$

a)   b)   c)   d)

Q2. Compare $15.7 - 6.4 \;\square\; 3.28 + 5.91$

a) <   b) >   c) =   d) none of these

Q3. Simplify: $\dfrac{64 - 0.1448}{16 + 0.8 + 0.004}$

a) 2   b) 3.8   c) 0.6   d) 4.2

Q4. Which of the following numbers is not divisible by 18?

a) 54036   b) 50436   c) 34056   d) 65043

Q5. Which mathematical symbol should replace * in the equation?
$$2 * 6 - 12 \div 4 + 2 = 11$$

a) +   b) −   c) x   d) ÷

Q6. Which of the following is the largest prime number of three digits?

a) 997   b) 996   c) 993   d) 991

Q7. What is the remainder obtained when a prime number greater than 6 is divided by 6?

a) 1 or 3   b) 1 or 5   c) 3 or 5   d) 4 or 5

Q8. The HCF of two numbers is 8. Which one of the following can never be their LCM?

a) 24   b) 48   c) 60   d) 56

Q9. Monday falls on 4th April 1998. What will be the day on 02nd May 1998?

a) Monday   b) Sunday   c) Tuesday   d) Wednesday

Q10. If $27.125 = 27 + \dfrac{A}{10} + \dfrac{B}{100} + \dfrac{C}{1000}$, then $\dfrac{A+B+C}{2} = ?$

a) 4   b) 6   c) 7   d) 10

Q11. Find the area of shaded region:

5cm

a) $4\dfrac{1}{15} cm^2$ b) $5\dfrac{5}{14} cm^2$ c) $16\dfrac{2}{8} cm^2$ d) $15 cm^2$
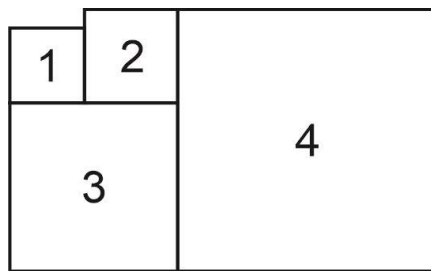
Q12. How many lines of symmetry does a regular hexagon have?

a) 4   b) 6   c) 8   d) 10

Q13. Between 2'o clock and 10'o clock, how many times the hands of a clock are at right angle?

a) 14   b) 12   c) 16   d) 15

Q14. In the given figure, (1), (2), (3) and (4) are squares. The perimeter of the square (1) and (2) are respectively 20 and 24 units.

1   2   3   4

The area of the entire figure is

a) 471 sq. unit   b) 747 sq. unit   c) 417 sq. unit   d) 472 sq. unit

Q15. What will be the least number which when doubled will be exactly divisible by 12, 16, 21 and 36?

a) 630   b) 504   c) 180   d) 240

Q16. The sum of two numbers is equal to the sum of their reciprocals. What will be the product of the numbers?
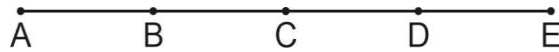
a) 6   b) 5   c) 1   d) ½

Q17. Which of the following number has the most number of divisors?

a) 176   b) 101   c) 99   d) 182

Q18. A certain amount of money is distributed among A, B and C. A gets $\frac{3}{16}$ and B gets $\frac{1}{4}$ of the whole amount. If C gets Rs. 81, then what does B get?

a) Rs. 42   b) Rs. 38   c) Rs. 36   d) Rs. 40

Q19. Number of line segments in the figure below is:

A   B   C   D   E

a) 5   b) 10   c) 15   d) 20
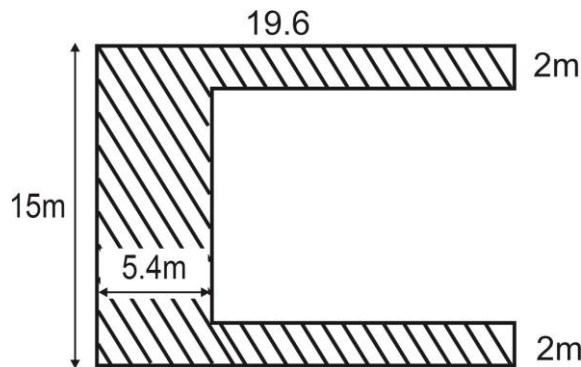
Q20. How many square tiles of maximum size will be required to pave a rectangular ground measuring 22m x 10m?

a) 55   b) 22   c) 30   d) 60

Q21. If the HCF of A and B is 24 and that of C and D is 56, then the HCF of A, B, C and D is:

a) 4   b) 12   c) 8   d) 3

Q22. Find the area of the shaded portion. All corners are right angled.

a) 137.8 m^2 b) 136.5m^2 c) 135.67 m^2 d) 148.4 m^2

Q23. If one third of one fourth of a number is 15, then how much is three tenth of that number?

a) 35   b) 36   c) 45   d) 54

Q24. The difference between two numbers is 7 and their sum is 35. What will be their product?

a) 324   b) 294   c) 79   d) 245

Q25. The perimeter of two squares are 12cm, 16cm. The perimeter of a square whose area is equal to the sum of the areas of first two squares would be:

a) 18 cm   b) 20 cm   c) 28 cm   d) 30 cm

Q26. A party of 20 people went to a dhaba. They ordered a meal for Rs. 36.60 each, but 5 of them had forgotten to bring money. In order to settle the bill, how many more Rs. did the other 15 people have to pay?

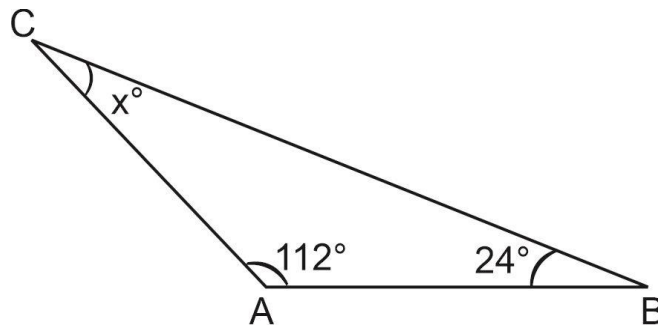a) Rs. 3.02   b) Rs. 12.20   c) Rs. 15.20   d) Rs. 15.26

Q27. 3 kg + 2,00,000 mg – 3020g is equal to how many kilograms.

a) 0.18 kg   b) 0.17 kg   c) 18 kg   d) 17 kg

Q28. $\frac{3}{4}$ part of a tank is full of water. When 30 litres of water is taken out, the tank becomes empty. What is the capacity of the tank?
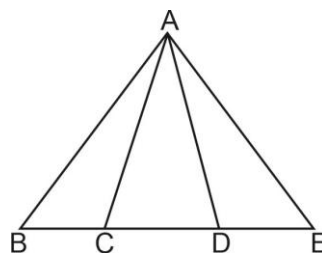
a) 36 litre   b) 42 litre   c) 40 litre   d) 38 litre

Q29. In the given figure $\angle A = 112°$, $\angle B = 24°$, find:
$2\angle A - (\angle B + \angle C) = ?$

a) 156°   b) 165°   c) 145°   d) 150°

Q30. Which of the following is correct for the figure given below?

a)   There are 3 obtuse angles   b)   There are 4 acute angles
c)   There are 6 triangles   d)   All of the above

SECTION D
SCIENCE

Q1. The joint between carpel and tarsal bones is the

a) Ball and socket joint   b) Hinge joint
c) Gliding joint   d) Pivot joint

Q2. Read the following statements and identify the animal in cold region which has the same characteristics.
Statement 1: Partly white colour helps in camouflage in white background.
Statement 2: Forelimbs are modified into flippers to help in swimming.

a) Polar bear   b) Walrus   c) Snowy owl   d) Penguin
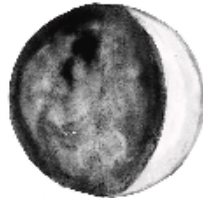
Q3. Ravi mistakenly washed his muddy hands in a bucket of water. Which of the following methods can help him to get clear water?

a) boiling   b) adding chlorine
c) adding more water   d) sedimentation and decantation

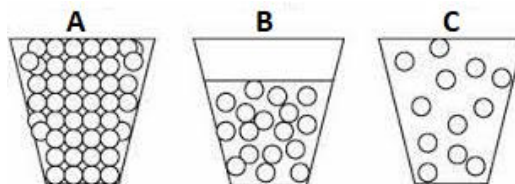Q4. Which of the following is not a part of water cycle in nature?

a) Evaporation   b) Sedimentation   c) Precipitation   d) Infiltration

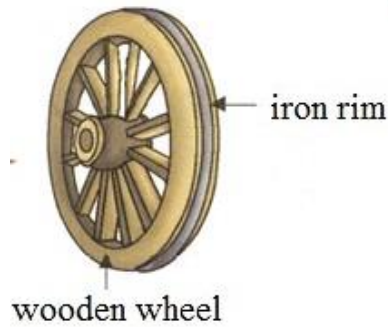Q5. Identify the given shape of moon with regard to its occurrence.

a)   Between third quarter and new moon
b)   Between first quarter and full moon
c)   Between new moon and first quarter
d)   Between full moon and third quarter

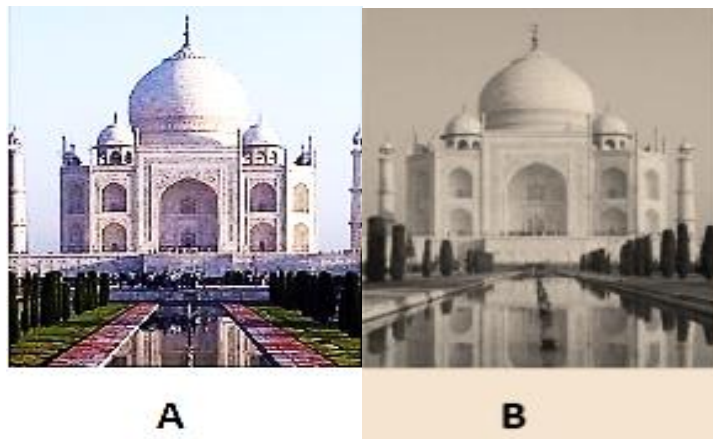Q6. Observe the given figure and identify the correct combination of matter.

a) A- Petrol, B-Helium   C-Graphite   b) A-Helium, B-Petrol C- Graphite
c) A- Graphite, B-Helium, C-Petrol   d) A- Graphite, B-Petrol C-Helium

Q7.   Metal rim is fixed to the wooden cart wheel by

iron rim

wooden wheel

a) Heating metal rim   b) Heating wooden wheel
c) Cooling metal rim   d) Cooling wooden wheel

Q8.   Raju was surprised to see the change in colour of Taj Mahal as shown in figure A and B. On enquiring, his father told him the reason for the change. Which of the following can be the reason that resulted in change of colour?

A   B

a) A- is painted white and B-is painted off white
b) A-is captured in moon light and B is captured in day light
c) A- before marble cancer and B is after marble cancer
d) Data is insufficient

Q9.   Name the metal from the given below which has the reddish brown colour:

a) Gold   b) Copper
c) Iron   d) Brass

Q10.   Bhuvan was eating chapatti and wanted to know if it was a carbohydrate. What chemical will he use to test ?

a) Iodine Solution   b) Caustic Soda
c) Copper Sulphate   d) Fehling Solution

Q11. Identify the sources of energy in the pictures given below:

A   B   C   D

a) A-Geothermal, B-Fossil Fuel, C-Natural Gas, D-Nuclear Energy
b) A-Fossil Fuel, B-Geothermal, C-Natural Gas, D-Nuclear Energy
c) A-Geothermal, B-Natural Gas, C-Nuclear energy, D-Fossil Fuel
d) A-Geothermal, B-Fossil Fuel, C-Nuclear Energy, D-Natural Gas

Q12. Ram kept a potted plant near the window after few days, he could observe a bent in the direction of the plant towards the window as shown in the figure. Name the phenomenon exhibited by the plant.

a) Geotropism   b) Hydrotropism
c) Phototropism   d) Chemotropism

Q13. Select the animal pair with similar skeletal system

a) Cockroach, starfish   b) Salamander, frog
c) Snake, tortoise   d) Snail, fish

Q14. Ria was taken to the doctor since she was having weakness, fatigue and pale skin. The doctor asked her to take food rich in iron and also vitamin B supplements. Identify the disease that she is suffering from:

a) Night blindness   b) Beriberi
c) Scurvy   d) Anaemia

Q15. Ravi wondered why the birthday candles extinguished when he blew on them. Help him out with the correct option.

a) Oxygen gas put out the candle   b) Nitrogen gas put out the candle
c) Carbon dioxide gas put out the candle   d) Carbon monoxide gas put out the candle

Q16. Where does the exchange of oxygen with carbon dioxide take place while breathing in human beings?

a) Nostrils   b) Trachea   c) Pharynx   d) Alveoli

Q17. Ram took out his milk carton from the refrigerator and kept it on the table. He could observe the water droplets accumulating on the carton. This has happened due to

a) Milk   b) Carton
c) Table surface   d) Water vapour in the air

Q18. Which of the following are oviparous?

a) Whales   b) Platypus   c) Human being   d) Dogs

Q19. Carom board is sprinkled with talcum powder before the game because

a) It is the rule   b) To harden the surface
c) To camouflage the carom coins   d) To reduce friction

Q20. The longest bone in human body is

a) Ulna   b) Radius   c) Humerus   d) Femur

Q21. In the given figure of three boxes, A weighs 30,000g, B weighs 5000g and C weighs 10 Kg. Which of the following requires less amount of force to move?

a) Box C   b) Box A
c) Box B   d) All boxes need equal amount of force
                                                            to move

Q22. Aditya has three boxes A, B and C made up of same material such that A weighs 300g, B weighs 500g and C weighs 10 Kg. Which of the following box will sink first in water?

a) Box A   b) Box B
c) Box C   d) All will sink together

Q23. The part of the alimentary canal that allows the food to pass from pharynx to stomach is:

a) Trachea   b) Bronchus   c) Alveoli   d) Oesophagus

Q24. What is roughage made up of?

a) Carbohydrate   b) Proteins   c) Vitamin   d) Minerals

Q25. The vitamin responsible for clotting of blood is:

a) Vitamin A   b) Vitamin B   c) Vitamin C   d) Vitamin K

Q26. The state of frequent passing of watery, loose faeces is called

a) Constipation   b) Diarrhoea   c) Diphtheria   d) Diabetes

Q27. Observe the figure carefully and identify the connective tissue found between the bones in joints.

a) Ligaments   b) Nerve   c) Muscle   d) Cartilage

Q28. Raju noticed that a door in his room was making a rough sound while moving. His friend suggested him to apply oil on its hinges . This reduced the sound of door movement. What could be the possible reason for this change?

a) Oil made the hinges shiny   b) Oil made the door colorful.
c) Oil made the hinges surface smooth   d) Oil made the hinges surface hard

Q29. Parallel venation is not found in

a) sugarcane   b) banyan   c) maize   d) wheat

Q30. Which is the correct set of parts of a pistil?

a) Ovary, style and filament   b) Ovary, style and stigma
c) Ovary, anther and filament   d) Filament and anther