Home Assignment Model Answers May 17, 2020
Class VI

English

Q.1. We know that scientists have been trying to set up colonies on the Moon and Mars. One day you get a mail with the information that you have been selected as one of the first group of students to attend a school on the Moon.

Let your imagination soar and create, in your mind, a school on the Moon! Write an interesting paragraph about your first day in school in about 80-100 words.

Answer: Today was my first day in the Space School. Oh, what a day it was! The first period was Sports. Moon has lesser gravity so we had great fun jumping and bouncing and playing football. Then we went on a field trip to a planetarium. All of us squealed with joy when the bus transformed into a rocket and blasted off into outer space! On our way back we saw an asteroid belt. It was beautiful but scary. Our Class teacher Ms Smith also taught us to use jet packs. I will always remember this day.

Q.2. After a long summer break, the school was about to reopen. The children were happy. Happier still were their companions- the notebooks, the school bag, the pencil, eraser, sharpener and pens. All of them get together to have some fun.

Write a story related to this theme in about 150 words. Give your story an interesting title.

Answer: The Companions

 It was the last day of a month-long summer break. Excitement was running high inside Rohan's school bag! All the stationery articles were happy that they would get to go to school again and meet all their friends. Pencil and Paper were having one of their never-ending arguments.
Paper said," Pencil, at least try to sharpen yourself without making so much noise!"
Pencil said," Or else? Will you give me a paper cut?"

Sharpener said, "Don't argue, dears. Come close all of you, as I am old and cannot talk loudly."

Then Rubber came bouncing like a puppy. The pens ambled along slowly. The Notebooks bent to hear what was being said. All of them respected the old Sharpener, who was very wise.

The Sharpener said," School time is very important and children depend on us. Let us do our best to make this his best year."

Everyone agreed wholeheartedly.

Q.3. Now that the human beings are indoors, animals are exploring their newfound freedom. But for a brighter future, we must learn to coexist peacefully with all God's creatures- big and small. Write a poem of at least four stanzas depicting this view.

Answer:

<u>The Fur-ever Friends</u>

They don't judge others, they never hate
They are gentle and do not discriminate
They   hold no grudges, they know how to love
From the fierce lion to the gentle dove.

They deserve some care, they need a home
Where they can be safe and free to roam
They are so sweet, have a happy heart
Looking for a family, a brand new start.

They keep to themselves, they never encroach
Ironic, how animals have the humane approach
The world would be bleak without our wildlife
We must help them to overcome their strife.

Care for our wildlife, any way that you can
Help them, lend a hand in preserving their clan
Remember, we share the Earth with them all
All of God's creatures- big and small!

हिंदी

प्रश्न-1 निम्नलिखित गदयांश को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए-

(क) हम कैसे प्रसन्न रह सकते हैं?

उत्तर – प्रसन्न रहने के लिए शरीर का स्वस्थ होना अत्यंत आवश्यक है। यदि हमारा शरीर स्वस्थ है तो हमारा मन भी आनंद और उमंग से भरा रहेगा।

(ख) अस्वस्थ रहने पर हमें कैसा लगता है?

उत्तर – अस्वस्थ रहने पर हमारा मन भी उदास रहने लगता है। हमारा स्वभाव चिड़चिड़ा हो जाता है और हमें कुछ भी अच्छा नहीं लगता है।

(ग) स्वस्थ रहने की क्या शर्त है?

उत्तर – स्वस्थ रहने की शर्त है- शरीर की स्वच्छता । यदि शरीर स्वच्छ होगा तो शरीर में कोई रोग नहीं पनपेगा।

(घ) स्वच्छ न रहने से हमारे शरीर में किस प्रकार रोग जन्म लेते हैं?

उत्तर – यदि हम अपने शरीर को स्वस्थ नहीं रखते तो हमारे शरीर में कई प्रकार के रोग जन्म ले लेते हैं। हमारी त्वचा में छोटे-छोटे छेद होते हैं, जिनसे पसीना बाहर निकलता है। शरीर की सफ़ाई न करने से ये छेद बंद हो जाते हैं और शरीर की गंदगी पसीने के द्वारा बाहर नहीं निकल पाती। इस कारण शरीर में रोग जन्म लेते हैं।

(ङ) इस गदयांश का उपयुक्त शीर्षक लिखिए ।

उत्तर – शीर्षक - **अच्छा स्वास्थ्य**

(च) अनुच्छेद में से अनुस्वार एवं अनुनासिक लगे दो-दो शब्द चुनकर लिखिए ।

उत्तर – • अनुस्वार- **गंदगी, बंद**

• अनुनासिक- **मुँह , हैं**

प्रश्न- 2 निम्नलिखित संज्ञा शब्दों को उचित कॉलम में लिखिए-

उत्तर-

व्यक्तिवाचक संज्ञा	जातिवाचक संज्ञा	भाववाचक संज्ञा
भारत	नदी	अमीरी
यमुना	देश	वीरता
अमिताभ बच्चन	शहर	बचपन
आगरा	मोर	घबराहट

सर्वनाम- जो शब्द संज्ञा की जगह पर प्रयोग किए जाते हैं, उन्हें सर्वनाम कहा जाता है । जैसे- मैं , हम, तुम, आप, मेरा, तुम्हारा, उसका, ये, वे, यह,वह, उनका,उन्होंने आदि ।

प्रश्न-3 रिक्त स्थानों की पूर्ति उचित सर्वनाम द्वारा कीजिए-

(क) मेरे जन्मदिन पर__**आप**___जरूर आना ।

(ख) ___**मैंने**_   आज एक अस्वस्थ की सहायता की ।

(ग) _**उसने**___मुझे एक पुस्तक पढ़ने के लिए दी ।

(घ) पिताजी ! **आप/ वे** कहाँ जा रहे हैं?

(ङ) _**जो**__जीतेगा, वही सिकंदर होगा ।

प्रश्न-4 निम्नलिखित वाक्यों के सामने क्रिया का भेद लिखिए-

(क) असीम रोज़ दौड़ता है ।   _____**अकर्मक**_____

(ख) मामा जी अख़बार पढ़ रहे हैं । ___ **सकर्मक**_____

(ग) महोदया कुर्सी पर बैठी हैं ।   _____**अकर्मक**_____

(घ) उषा यादव पत्र लिख रही है । _____**सकर्मक**_____

(ङ) माथुर जी सो रहे हैं ।   ___**अकर्मक**____

प्रश्न-5 निम्नलिखित चित्रों को देखकर उचित विशेषण लिखिए-

बड़ा घर   **छोटा** हिरन   **खुशबूदार** फूल   **सुन्दर** मोर

प्रश्न-6 कहानी लेखन – स्वविवेकानुसार

The Shishukunj
INTERNATIONAL SCHOOL
INDORE

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Class VI

Mathematics

Topic: Area and Perimeter

Q.1 Find the area of the following figure:
Solution: Let the smaller figure be A and larger figure be B.
                Required Area   = Sum of areas of A and B
                Area of A   = 6 X 5   = 30 sq.ft
                Area of B   = 13 X (14-6) = 13 X 8 = 104 sq.ft
        ∴ Required Area   = 30 + 104   = 134 sq. ft
Answer: = Area of this figure is 134 sq.ft

Q.2 The floor of Kean's room is in the shape of a rectangle and has measurements of 12 m by 8 m. Find the area of the floor in cm^2.
Solution: Area of rectangle = length x breadth
                        = 12 x 8 = 96 m^2
Answer: = Area of Floor = 96 m^2

Q.3 Find the perimeter of the following figures:
Solution: Perimeter of 1st figure =
        4+1+3+2+3+4+1+3+2+3+4+1+3+2+3+4+1+3+2+3 = 52 cm
Answer: = 52 cm

        Perimeter of 2nd figure =
        1+4+0.5+2.5+2.5+0.5+4 = 15 cm
Answer: = 15 cm

Q.4 Rena has drawn four irregular figures and coloured them as shown below. Help her to find which coloured sketch pen she has used the most. (Hint: Find the area of each)
Solution:

Colour of figure	Calculation of Area
Red	(6 x 4) + (3 x 1) = 24 + 3 = 27 cm^2
Yellow	(7 x 2) + (8 x 4) = 14 + 32 = 46 cm^2
Blue	(6 x 5) + (4 x 3) = 30 + 12 = 42 cm^2
Green	(7 x 2) + (3 x 2) = 14 + 6 = 20 cm^2

The figures can be divided differently, as per every individual. But the area should be the same as mentioned in the table.

Answer: = Rena has used yellow sketch pen the most.

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Q.5 The two ends of a string measuring 28 cm are joined together to form a square. What will be the length of each side of the square?
Solution: Perimeter of the square = The length of the string
$$4 \text{ x side} = 28$$
$$\text{Side} = \frac{28}{4}$$
$$\text{Side} = 7 \text{ cm}$$
Answer: = The length of each side of the square is 7 cm.

Q.6 The perimeter of a rectangular park is 24 m. If its length is 7 m, find its breadth.
Solution: Perimeter   = 2 x (l + b)
$$24 = 2 \text{ x } (7 + b)$$
$$\frac{24}{2} = 7 + b$$
$$12 = 7 + b$$
$$12 - 7 = b$$
$$5 = b$$
Answer: = Breadth of the park is 5 m

Q.7 Four square beds with each side 1 m are dug on a piece of land 5 m long and 8 m wide. What is the area of the remaining part of the land?
Solution: Required Area   = Area of Land – Area of 4 square beds
Now, Area of Land   = 5 x 8 = 40 m^2
Area of 4 square beds   = 4 x area of 1 bed
                          = 4 x (1x1)
                          = 4 x 1
                          = 4 m^2
Required Area   = 40 – 4 = 36 m^2
Answer: Area of the remaining part = 36 m^2

Q.8 Below is the map of the floor plan of a house. Use the measurements given to answer the questions that follow.
a) What is the perimeter of Dining room?
Solution: Perimeter of dining room = 12+2+6+6+6+6+3+11
                          = 58 ft.
Answer: = 58 ft.

b) Which Bedroom is bigger in area?
Solution: Bedroom 1: 12 x 11 = 132 sq. ft
Bedroom 2: (9 x 8) + (5 x 2) = 72 + 10 = 82 sq. ft
Answer: Bedroom 1 has larger area

c) Find the difference in perimeter of Back Porch and Covered Porch.

Solution: Perimeter of Back Porch = 18+5+18+5 = 46 ft.

Perimeter of Covered Porch = 5+23+16+5+11+18

= 78 ft.

Difference = 78 – 46 = 32 ft.

Answer: Difference in perimeters of covered and back porch is 32 ft.

Q.9 A square room has side 8 m. If the cost per metre square is ₹10, find the cost of flooring the room.

Solution: For flooring the room, area is required.

Area = side x side = 8 x 8 = 64 m^2

Cost of 1 m^2 = ₹ 10

∴ Cost of 64 m^2 = 10 x 64 = ₹ 640

Answer: The cost of flooring the room is ₹ 640

Q.10 Ajay runs around a square park of side 60 m. Samish runs around a pentagonal park of each side 50 m. Who covers a lesser distance and by how much? (Hint: A pentagon has 5 sides)

Solution: Distance covered by Ajay = Perimeter of square park

= 4 x 60 = 240 m.

Distance covered by Samish = Perimeter of pentagonal park

= 5 x 50 = 250 m.

Difference = 250 – 240 = 10 m.

Answer: Ajay covered less distance by 10 m.

Q.11 Given below are three grids- 1,2 and 3. Do as directed.

Answer: = Solution will vary for every individual

Q.12 The side of a square is 10 cm. How many times will the new perimeter become if the side of the square is doubled?

Solution: Side = 10 cm

Original Perimeter = 4 x 10 = 40 cm.

New Side = 2 x 10 = 20 cm

New Perimeter = 4 x 20 = 80 cm.

Answer: The new perimeter will become 2 times the original perimeter.

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Q.13 Mrs. Sharma is organizing a "Family Tambola". She decides to have a "Republic Day" theme for the tickets. 3 tickets out of the 50 distributed, are shown below.
Each ticket is divided into 27 small squares. Assuming each side of each small square to be 1 cm, answer the following questions:

a) Find the area of all filled orange blocks in ticket 1.

Solution: No. of filled orange blocks = 5
Area of each block = 1 cm^2
$\therefore$ Area of 5 blocks = 5 cm^2

Answer : = 5 cm^2

b) What will be the perimeter of ticket 2 and 3 combined? (no gap in between)

Solution: Ticket 2 and 3 when combined have 6 + 6 blocks vertically and 9 + 9 blocks horizontally.
$\therefore$ Total blocks = 30
Perimeter = 30 cm.

Answer: = Perimeter of 2 and 3 tickets combined is 30 cm.

c) Do all three tickets have the same perimeter?

Answer: = Yes, all the tickets have the same perimeter.

Q.14 State whether we will find perimeter or area in the following cases:
a) To find the cost of painting a wall   ____**Area**_____
b) Framing a Family picture   ___**Perimeter** __
c) Changing the tiles of a bedroom   ____**Area**_____
d) Covering the School Book   __**Area**_____
e) Planting trees on the border of the field   ___ **Perimeter**__

Q.15
Answer the questions given below based on the concepts of area and perimeter and link your answers to the table of alphabets given at the last, to reveal a **Tagline** of our city. An example is done in the last block. Write the Tagline at the end by combining all the letters obtained.

A	B	C	D	E	F	G	H	I	J	K	L	M
28	30	7	4	42	15	14	10	18	21	48	24	60
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
25	36	5	11	32	12	22	8	40	20	33	6	9

Solution:

CLEAN AND GREEN CITY

The length of a rectangle of area 28 cm^2 & breadth 4 cm	The perimeter of an equilateral triangle of side 8 cm	The perimeter of a rectangle of length 14 cm and width 7 cm	Length of wire needed to fence a square field of side 7 m
7	24	42	28
C	L	E	A
Area of a square of side 5 mm	Length of a rectangle of width 4 cm & perimeter 64 cm	Perimeter of a triangle having three sides as 5 cm,8 cm & 12 cm	Number of sides of a rectangle
25	28	25	4
N	A	N	D
The area of a compass box 7 cm by 2 cm	The perimeter of an Octagon(8 sides) having each side as 4 cm	Area of a carpet 7 m by 6 m	Area of 21 squares, each of whose area is 2 m^2
14	32	42	42
G	R	E	E
Half of half of the area of a square of side as 10 m	Number of sides in Heptagon	Area of a room 6 m by 3 m	Sum of Areas of two rectangles, each of whose area is 11 cm^2
25	7	18	22
N	C	I	T
Area of a sharpener 3 cm by 2 cm			**Area of a rectangle of length 4 cm and breadth 3 cm**
6			12
Y			S

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Science

Topic 2: Components of Food

Q.1 Which of the following food items do not provide any nutrient?
 Milk, Water, Orange Juice, Tomato soup
Answer: Water

Q.2 What happens to the excess of carbohydrates consumed in the body?
Answer: If the carbohydrates consumed are more than required by the body, then the excess carbohydrates are stored in the body as fats.

Q.3 Where are the fats stored in our body? State the functions of fats.
Answer: Fats are stored under the skin and around the heart and kidneys. Fats contain more energy than carbohydrates. Our body uses fats as an energy store. The fats stored in our body also help to keep us warm.

Q.4 Read the food items given below:
   (i)   Wheat   (iii) Iodized salt
   (ii) Ghee   (iv) Spinach (palak)
Which of the above food items are "energy giving foods"?
        (a) (i) and (iv)   (b) (ii) and (iv)   (c) (i) and (ii)   (d) (iii) and (iv)
Answer: (c) (i) and (ii)

Q.5 Which of the following sources of protein is different from others:
(a) Peas   (c) Soybeans
(b) Gram   (d) Cottage cheese (paneer)
Answer: (d) Cottage cheese (paneer), as cottage cheese is a milk product which is obtained from animals and rest all are obtained from plants.

Q.6 Read the food items listed below. Classify them into carbohydrate rich, protein rich or fat rich food and fill them in the given table.
Moong dal, fish, mustard oil, sweet potato, milk, rice, egg, beans, butter, butter milk, cottage cheese (paneer), peas, maize, white bread.
Answer: A: sweet potato, rice, maize, white bread
            B: moong dal, fish, milk, egg, beans, cottage cheese(paneer), peas, butter milk
            C: mustard oil, butter

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Social Science (Geography)

Topic: Globe: Latitudes and Longitudes

Q.1 Answer the following questions based on the 'Heat Zones' of the Earth:

i. What kind of climate do the temperate zones have?
   Answer: Average yearly temperatures in these regions are not extreme, not burning hot nor freezing cold. Temperate means moderate. Unlike in the tropics, temperatures can change greatly here, between summer and winter.

ii. How many heat zones does the Earth have?
   Answer: Three heat zones

iii. Give one reason why slanting rays give less heat?
   Answer: The rays that fall at a slant has to cover large area therefore it gives less heat.

iv. Why is the Torrid Zone much hotter than the Frigid Zone?
   Answer: The torrid zone gets direct rays of the sun for most of the year whereas at the frigid zone rays of the sun fall at a great slant. That is why torrid zone is much hotter than the frigid zone.

v. Write the difference between temperate and frigid zones.
   Answer: A temperate region experiences all four seasons, having hot temperatures and cold temperatures. A frigid zone is nearly always cold, except for a brief summer respite.

vi. Draw a well labeled diagram of the "Heat Zones".

Q.2 Fill in the blanks: -
a) Parallels are also called as **Longitudes**.
b) The network of parallels and meridians on the globe is called a **grid**.
c) The imaginary lines running from East to West around the Earth are called **Latitudes.**
d) The **Prime Meridian** passes through Greenwich.
e) Meridians are also known as parallels
f) The Equator is the **zero-degree** parallel.
g) There are 90 parallels in the Northern Hemisphere and in the Southern Hemisphere.

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Q.3
  i) Find two countries that each of the following major latitude or longitude pass through:
  Answer: Students will write their own answers

  ii) Which country is located at N20, E80?
  Answer: <u>India</u>

  iii) Which country is located at S85, E10?
  Answer: <u>Antarctica</u>

Q.4 Some latitudes and longitudes have been marked on the map given below. Answer the following questions with the help of the map.
 a) Which state is located at 16' N and 76'E?
   Answer: Kerala

 b) Which state is located at the point where 24'N and 80'E meet?
   Answer: Madhya Pradesh

 c) Write the latitudes and longitudes which meet in Odisha?
   Answer :20N 84'E

 d) Name the states through which the Tropic of Cancer passes.
   Answer: In India Tropic of Cancer passes through 8 states. Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal, Tripura and Mizoram.

 e) The latitude that passes through Port Blair.
   Answer: 11.40 "N