Home Assignment Model Answers – 25 April 2020
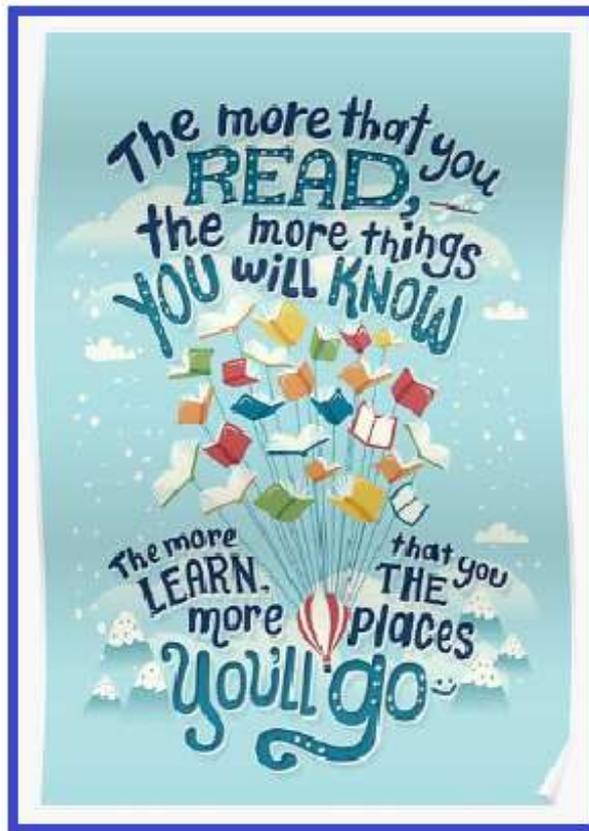Class VIII

English

Q1.World Book Day is celebrated each year on 23 April across the world. This day is a celebration of authors, illustrators and books......in fact it is a celebration of reading. The theme for 2020 is ' to share a million stories'

Draft an attractive poster with the message: 'It is time to celebrate stories and promote reading'. (make it bright and beautiful... don't forget to put it in a box) Sample Poster

Answer:

SAMPLE CATCH LINES TO BE USED IN THE POSTER

"THE WORLD BELONGS TO THOSE WHO READ!"

"BOOKS DON'T CHANGE PEOPLE; PARAGRAPHS DO, SOMETIMES EVEN SENTENCES!!"

"READING GIVES US SOME PLACE TO GO WHEN WE HAVE TO STAY WHERE WE ARE!"

Q2. 'A single rose can be my garden...... a single friend , my world' . You share a wonderful bond with your best friend. Describe him / her in a paragraph of about 80- 100 words. Give the paragraph a suitable heading. Make sure you mention his / her physical attributes, intellectual/emotional qualities, likes and dislikes, etc.

Answer:

MY BEST FRIEND

Friendship is one of the greatest blessings one can have. I am indeed lucky to have Kate as my best friend. It sounds to be a cock and bull story, but I earned the best friend of my life when I was just nine years old.

We have been a part of each other's lives for quite some time now and most importantly, I feel extremely fortunate to have someone as a best friend in my life. We have learned so many things about each other and found out that our taste in music is also similar.

One of the main reasons why I formed such a bond with my best friend is because of the qualities she possesses. She is honest, confident and always willing to help. The quality that appeals to me the most is her compassion. She has adopted an injured stray dog, is taking good care of it and is her favourite pet now. I appreciate and love her a lot.

Q3. Write an interesting article in about 100-120 words for your school magazine on the topic: 'I am the English language, unique and modish'. Use the first-person narrative. Make it humorous and captivating for readers.
Answer:

I AM THE ENGLISH LANGUAGE: UNIQUE and MODISH

 I the English language is a mystery to all of us. From my bizarre spelling rules to its free-for-all grammar, I am very widely read and also highly appreciated.
No wonder I have to follow certain rigid rules set by my elder sister 'Miss Grammar'. I sometimes wonder how to manage and communicate at all! To begin with, a box and the plural is boxes. But the plural of ox should be oxen, not oxes. Still, I am being pampered in every home of the elite and every library. Don't believe me!!!Go ahead and read this!!!
'I speak of a brother and also of brethren, but though I say sister I never say sistren.

Then the masculine pronouns are he, his and him, but imagine the feminine, she, shis and shim.'

I am indeed a unique language!!! Well to make you believe read this... You're going to realize your language is just so unique and different. So just bear with me for

a **minute** while we go through the most **minute** of details of the English language. By the time I'm done, you will find yourself most **content** with the following **content.**

Q4. While exploring the planet 'Pandora', a group of scientists discover a plant that glows florescent green and can move with great speed! The scientists decide to ....

Complete the story in 150 -200 words giving it a suitable title.

Answer:

PANDORA – Space Adventure

While exploring the planet Pandora, a group of scientists discover a plant that was florescent green and can move with great speed! The scientists decide to research on the plant. 'We have to move out of this space ship,' said Regan. He stopped the engines of the space ship. They started exploring the planet.

They found glowing plants and shrubs all over the planet. Henry pointed out huge dried pits, before they could understand they saw a boulder which was covered in sticky sap. Suddenly small shoots covered it. It started glowing up brightly.

They decided to go closer and were surprised to see that the leaves had some strange codes and numbers. Louis wanted to click some pictures so he hurriedly took out his infra-red camera. Even before he could click a golden UFO landed close by.

An alien came out of it and spoke to them in friendly manner inviting them to visit their planet 'Zathura'. They accepted his invitation and golden UFO left for its unknown destination along with the group of scientists.
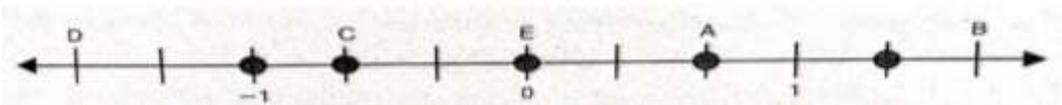
(You can continue with the second part of this story...let your imagination soar high!!)

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Mathematics

Q.1 Look at the number line and answer the following question.

- **a.** How many equal parts are there between 0 and 1?
  Answer: = 3
- **b.** How many equal parts are there between 0 and -1?
  Answer: = 3
- **c.** Write the rational represented by the points A, B, C, D and E.

  Answer: = A= $\frac{2}{3}$;B=$\frac{5}{3}$;C= $\frac{-2}{3}$;D=$\frac{-5}{3}$;E=0
- **d.** Write absolute value of point B and D.

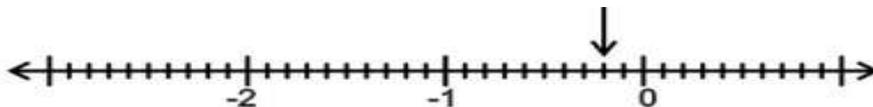 **Answer:** = B= $\frac{5}{3}$; D= $\frac{5}{3}$

Q.2 Use number line to answer the following questions.

- **a.** If the length between 0 and 1 was divided into fifths, what rational number would the second point to the right of zero represents?
  Answer: =$\frac{2}{5}$
- **b.** If the length between 0 and -1 was divided into eighths, what rational would the fifth point to the left of 0 represents?
  Answer: = $\frac{-5}{8}$

Q.3 What rational number does the pointer on the number line show?

  Answer: = $\frac{-2}{10}$ OR -0.2

Q.4 Which of these rational numbers is/are the same as (- $\frac{15}{20}$)?

- $\frac{3}{4}$	$\frac{45}{-60}$	$\frac{30}{40}$

Solution: $\frac{-15}{20}$ = $\frac{-3}{4}$; $\frac{15 \times 3}{-20 \times 3}$ = $\frac{45}{-60}$

Answer: = $\frac{-3}{4}$; $\frac{45}{-60}$

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Q.5 Represent the following number as decimals, up to three places of decimals.

    a. $\frac{9}{8}$

    Answer: = 1.125

    b. $\frac{-7}{23}$

    Answer: = -o.304

    c. $\frac{88}{99}$

    Answer: = 0.888

Q.6 Write the following numbers in ascending order by representing them as decimals.

$$\frac{-1}{9}, \quad \frac{-12}{25}, \quad \frac{5}{3}$$

    Solution: -0.11; -0.48; 1.66
    Answer: = $\frac{-12}{25}, \frac{-1}{9}, \frac{5}{3}$

Q.7 Solve

    a. $\frac{2}{3} - \left(-\frac{1}{4}\right) + \frac{3}{2} + \left(-\frac{1}{2}\right)$

      Solution: $\frac{2}{3} + \frac{1}{4} + \frac{3}{2} - \frac{1}{2}$

                   $= \frac{8+3+18-6}{12}$

      Answer: $= \frac{23}{12}$

    b. $\frac{1}{8} + \frac{1}{4} - \left(-\frac{1}{2}\right) + \frac{3}{4} + \left(-\frac{1}{2}\right)$

      Solution: $\frac{1}{8} + \frac{1}{4} + \frac{1}{2} + \frac{3}{4} - \frac{1}{2}$

                   $= \frac{1+2+4+6-4}{8}$

      Answer: $= \frac{9}{8}$

Q.8 A person earns ₹1000. He spends $\frac{2}{9}$ of the salary on transport and $\frac{3}{8}$ of it on food. How much money does he saved in a day?

Solution: Money earned   = ₹1000

Money spent on transport = ₹1000× $\frac{2}{9}$

= ₹$\frac{2000}{8}$

Money spent on food = ₹1000× $\frac{3}{8}$

= ₹$\frac{3000}{8}$

Money saved   = Money Earned – Money Spent

= $1000 - \left(\frac{2000}{9} + \frac{3000}{8}\right)$

= $1000 - \left(\frac{16000+27000}{72}\right)$

= $1000 - \frac{43000}{72}$

= $\frac{72000-43000}{72}$

= $\frac{29000}{72}$

= ₹ 402. 77

Answer: = Money saved in a day is ₹ 402. 77

Q.9 A turtle was at distance of $1\frac{1}{2}$ km from the ground level. After sometime, it dived $1\frac{1}{4}$ km further. How far is the turtle from the ground level? (2marks)

Solution : Initial position   = $\frac{-3}{2}$ km

He dived   = $\frac{-5}{4}$ km

Distance from   = $\frac{-3}{2} + \left(\frac{-5}{4}\right)$

the ground levels

= $\frac{-6-5}{4}$

= $\frac{-11}{4}$ km

Answer: = Turtle is $-2\frac{3}{4}$ km from the ground level.

Q.10 $(-1)^1 + (-1)^2 + (-1)^3 + \ldots\ldots\ldots\ldots(-1)^{100}$ =?

Solution: = -1+1-1………. -1+1

Answer: = 0

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Q.11 Find the value of p in the following

$27 \times 3^{p+1} = 729$

Solution: $3^{p+1} = \dfrac{729}{27}$

$3^{p+1} = 27$

$3^{p+1} = 3^3$

On equating power as basis are same.

p+1 = 3

p = 3-1

Answer: p = 2

Q.12 The diameter of sun is 1.4×10^9 m and the diameter of Earth is 1.2756×10^7 m. Compare the two by finding their ratio. (use approximation)

Solution: Ratio $= \dfrac{1.4 \times 10^9}{1.2756 \times 10^7}$
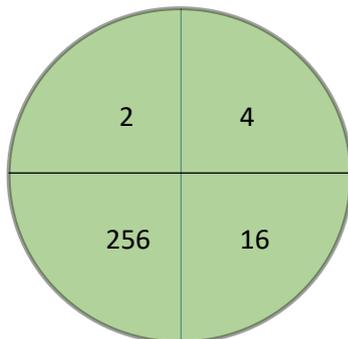
$= \dfrac{1.4 \times 10^{9-7}}{1.2756}$

$= \dfrac{1.4 \times 10^2}{1.2756}$

$= \dfrac{140}{1.2756}$

$= \dfrac{100}{1}$ (Approximate)

Answer: The diameter of the sun is 100 times the diameter of the earth.

Q.13 Find the missing number. (2marks)

Solution: 2×2= 4

4×4=16

16×16= 256

Answer: = 4

Q.14 Find out the exact value of the followings. Show the result in standard form.

  a. Height of Mount Everest.
  Answer: 8.848×10^3 m

  b. Distance between Earth and Sun.
  Answer: 1.496×10^{11} m

  c. Distance between Earth and Moon.
  Answer: 3.84×10^8 m

Q.15 Use rational numbers to fill the blank boxes such that adding any rows, columns or diagonals give 1 as the total.

0	$\dfrac{1}{2}$	$\dfrac{1}{2}$
$\dfrac{5}{6}$	$\dfrac{1}{3}$	$\dfrac{-1}{6}$
$\dfrac{1}{6}$	$\dfrac{1}{6}$	$\dfrac{2}{3}$

Science (Biology)

"Conservation of Plants and Animals"

Q.1 Wild buffalo is an endangered species because

(a) its population is diminishing

(b) it has become extinct

(c) it is found exclusively in a particular area

(d) its poaching is strictly prohibited

Answer: a

Q.2 Which one of the following changes may occur due to desertification?

(a) Decrease in atmospheric temperature.

(b) Increase in water holding capacity of soil.

(c) Increased chances of floods.

(d) Conversion of fertile land into a desert.

Answer: d

Q.3. Which one of the following statements is true about endemic species?

(a) They are found exclusively in a specific habitat.

(b) Endemic species can never become endangered.

(c) They are found only in zoos and botanical gardens.

(d) They are not affected by the destruction of their habitat.

Answer: a

Q.4 Some villagers were unhappy that their herds of goats were steadily decreasing in numbers. A boy said that he had seen a tiger near their village one day. So, the villagers headed out to hunt and kill as many tigers as they could find. After having killed several tigers for over a year, the villagers found that the numbers of goats were still decreasing. There was also a sudden increase in the number of monkeys that

entered their village. The villagers had killed the wrong animal. Which of the following shows the impact of the villagers' action?

| (i) The population of the unknown predator increased. |
| (ii) The tiger population went down and became endangered. |
| (iii) The monkey population increased to unmanageable levels. |

A   (i) only   B)   (ii) only

C)   (iii) only   D)   (i), (ii) and (iii)

Answer: d

Q.5 Is deforestation associated with global warming? Explain.

Answer: Plants use carbon dioxide for photosynthesis and release oxygen for maintaining the atmospheric balance. Fewer trees mean that less carbon dioxide will get recycled in this manner. Carbon dioxide traps heat rays reflected by the Earth which increases in temperature on the Earth and leads to global warming.

Q.6 How does deforestation lead to frequent floods and droughts?

Answer: Plants absorb water from the soil and release it in the air through transpiration. It is this moisture in the air which eventually turns into clouds and returns to Earth as rainfall. Deforestation and increase in temperature on the Earth disturb the water cycle, which leads to a reduction in rainfall and droughts.

Deforestation leads to land erosion because the trees maintain the surface of the land. The water level of the rivers increases suddenly, causing floods. When it rains, trees absorb and store a large amount of water with the help of their roots. Chopping down of trees disrupts the flow of water and leads to floods in some areas.

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Q.7 How does the government conserve our forests and wildlife?

Answer: The government lays down rules, regulations and policies to protect our forests and wildlife. Besides, it also earmarks rich flora and fauna habitats as protected areas where the following activities are prohibited:

- Cutting down trees
- Grazing cattle
- Hunting
- Plantation and cultivation
- Poaching (illegally killing or capturing wild animals)

Q.8 Differentiate between:

a) Flora and Fauna

Flora	Fauna
Plants found in a particular area are referred to as the flora of the area.	Animals found in a particular area are referred to as the fauna of the area.
For Example, flora in the Pachmarhi Biosphere Reserve includes: Sal, Arjun, Teak etc.	For Example, fauna in the Pachmarhi Biosphere Reserve includes: Blue bull, Barking deer, Leopard,etc.

b) Endangered and Endemic Species

Endangered Species	Endemic Species
Species whose number diminish so much that they might face extinction (or vanish off the face of the Earth) are known as **Endangered Species**. There can be endangered animals and endangered plants. Endangered Flora: Rafflesia flower, Georgia aster, Dragon tree, Venus fly trap, Green pitcher plant, etc. Endangered Fauna : Gorillas, Sea turtles, orangutan, Sumatran elephant, Tiger, etc.	Species of plants and animals that are exclusively found in a particular area are called **Endemic** to that zone, state or country. The endemic species are not found anywhere else naturally. Endemic flora of the Pachmarhi Biosphere Reserve includes sal and wild mango. Endemic fauna of the Pachmarhi Biosphere Reserve includes bison, Indian giant squirrel and flying squirrel..

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Social Science

Topic : The Constitution of India (CIVICS)

Q.1

a) Do you think all countries require a constitution? Yes or No. Express your views in not more than 80 words.

Answer: Value based answer – open ended. Students' own view.

b) 'Constitution serves several purposes'. Discuss the significance of the Constitution in the Indian context.

Answer:

- It contains ideals that form the basis of the kind of country that we aspire as citizens.
- It prevents the government from misusing their power.
- It defines the nature of a country's political system.
- It prevents inter-community and intra-community domination.
- It ensures that a dominant group does not use its power against less powerful groups.

c) Research and explain why Nepal needed to rewrite its Constitution with a change of governments between 1990 - 2010.

Answer: The research will be done by students on the rewriting of the constitution of Nepal**.**

Q.2 Identify the personalities given below and mention their role in the framing of the Constitution.

Answer: The pictures will be identified by the students.

Q.3 Choose the correct words to complete the given crossword. *(You will be required to copy down the grid)*

Answer:

Across:

5. Federalism

8. Anarchy

9. Legislature

10. Drafting

Down:

1. American

2. President

3. Constitution

4. Lengthiest

6. Monopoly

7. Partition

Q.4 Find out and explain the meanings of the following terms mentioned in the Preamble:

  i.   Sovereign-India is an independent country governed by its own people.

 ii.   Socialist-The Constitution has provisions to promote social and economic equality.

iii.   Secular-All citizens, irrespective of their religious beliefs, are equal before law.

 iv.   Democratic-People elect their own governments at all levels.

  v.   Republic-The head of the nation, i.e., the President is elected by the people.

 vi.   Justice-Our Constitution aims at securing social, political and economic justice for all.

vii.   Equality-To ensure equal status and equality of opportunity for all individuals in the society.

viii.   Fraternity- India being a land of diversity, a spirit of brotherhood among its people is necessary.