

Home Assignment Model Answers – May 23, 2020
Class VII

English

Q.1

A limerick is a short, funny poem of 5 lines. It follows the rhyming scheme AABBA. Write a limerick on any **TWO** of the following topics:

- i. Your friends
- ii. Your pet
- iii. Your sibling or your cousin
- iv. Your neighbourhood

Remember, it should tickle the reader's funny bone. Include a simple sketch too!

Answer:

- (i) He was to play Robin to my Batman
I wonder why nothing went as per the plan
It's nothing to scoff
That his nose fell off
You see, my pet was a snowman!



- (ii) What a man is my neighbor, Mr Peel
When I trample his lawn he begins to squeal
He has his quirks
But hey, whatever works
They make him more interesting I feel.



Q.2 Self-motivation is the key to success. You must always keep a sunny outlook and see the bright side of every picture. But most importantly you have to learn to love yourself. In not more than 120 words, write about the good qualities that you possess.

Answer:

I am lucky to have many wonderful friends and a loving family who love me for who I am. But the thing that I love best about myself is that I am happiest when I make others smile. I am polite and kind towards others as that is how I would like to be treated. I want to leave a trail of kindness and not the scars of discord wherever I go.

I am always eager to learn new things. This sharpens my mind and helps me handle my shortcomings with elan. It brings many new friends in my circle which broadens my horizons. These are the qualities that make me what I am- God's masterpiece!



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Q.3 Imagine you have been shipwrecked on an island. Thankfully you have plenty of food to eat and a pond nearby. You know it could be weeks before you are rescued. If you could order one book for that period, which would it be and why? Write a paragraph in about 80-100 words about the same.

Answer:

I am not a bookworm; I am a book dragon! So, it would be a tough choice. If shipwrecked on an island I would order 'Wings of Fire', the autobiography of our former President Dr A.P.J. Abdul Kalam. It is the story of single-minded dedication, quest for betterment and perseverance. It taught me that certain events are out of one's control. So, if you fail, you should change the path and not your goal. The book taught me that one must keep sharpening and upgrading one's skills. So, when destiny comes knocking, one is ready to create history. It will keep me motivated.

Q.4 "Courage doesn't mean you don't get afraid. Courage means you don't let fear stop you."

Answer:

If I find a magic box that could give me courage to do anything, I will use it to follow my heart and intuition. It takes courage to stand up to bullies. I would use my newfound courage to help those who cannot help themselves. Life is a series of trials and sometimes failure can be very disheartening. I would use my courage to build myself up from the scratch. I would love to learn a new skill, even if I fail at first. My courage would help me to dust myself off and move on.

Q.5 All of us make some common errors while writing or speaking English. Can you spot the errors in the following sentences?

Read the sentences given below carefully and rewrite them correctly without changing their tense or meaning. Do not copy the incorrect sentences. What is more – make sure you do not make these errors in your language ever again!

Answer:

- a. I have lived in Canada since 10 months now.

Ans: I have lived in Canada **for** 10 months now.

- b. Adam is not knowing the way to the museum.

Ans: Adam **does not know** the way to the museum.



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- c. I did not spill the water, you may ask to Anitha.
Ans: I did not spill the water, you may ask **to** Anitha.
- d. Me and Robert have been selected for the debate.
Ans: Robert **and I** have been selected for the debate.
- e. These all drawings have been made by me.
Ans: All **these** drawings have been made by me.
- f. She sat besides me in the theatre.
Ans: She sat **beside** me in the theatre.
- g. Why was Sam not choose in the cricket team?
Ans: Why was Sam not **chosen** in the cricket team?
- h. They will themself look into the matter.
Ans: They will look into the matter **themselves**.
- i. I did not listen to the advise given by my mother.
Ans: I did not listen to the **advice** given by my mother.
- j. Have you gotten your Science assignment?
Ans: Did **you get** your Science assignment?

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हिंदी

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

(क) कविता में 'हमने' शब्द का प्रयोग किसके लिए किया गया है ?

उत्तर: कविता में 'हमने' शब्द का प्रयोग भारतीय लोगों के लिए किया गया है।

(ख) हमने जग को क्या -क्या दिया है?

उत्तर: हम भारतीयों ने जग को प्यार, शांति, बंधुत्व का भाव सिखाया है। हमारी संस्कृति यही सिखाती है कि सभी के प्रति सद्भाव रखें।

(ग) हमारे किन - किन गुणों के कारण पूरा जग हमारा अभिवादन करता है?

उत्तर: भारत देश के गौरवशाली इतिहास, प्राचीन सभ्यता व संस्कृति के कारण जग हमें अभिवादन करता है। हम भारतीयों के ज्ञान की भी सभी लोग प्रशंसा करते हैं।

(घ) कवि ने बच्चों को किस प्रकार अपने लक्ष्य की ओर बढ़ने को कहा है?

उत्तर: कवि ने बच्चों से कहा है कि यदि वे अच्छाई, सदाचार, सद्भाव का मार्ग अपनाएँगे तो देश की प्रगति होगी। असत्य, दुराचार व बेईमानी को मिटाकर ही वे देश का भविष्य बना सकते हैं।

(ङ) बच्चों को भावी राष्ट्र - निर्माता क्यों कहा गया है?

उत्तर: बच्चे ही देश के भावी युवा हैं, वे यदि अच्छे हों तो देश का भविष्य अच्छा होगा। इसीलिए उन्हें राष्ट्र - निर्माता कहा गया है।

(च) पद्यांश में प्रयुक्त निम्नलिखित शब्दों में से उपसर्ग व मूल शब्द अलग करके लिखिए -
प्रगति, असत्य

उत्तर: **प्रगति** :- मूल शब्द - ' गति ' व उपसर्ग ' प्र ' ,
असत्य :- मूल शब्द ' सत्य ' व उपसर्ग ' अ '

(छ) उपरोक्त पद्यांश में से एक ऐसा शब्द खोजकर लिखिए जिसमें उपसर्ग व प्रत्यय दोनों ही प्रयुक्त हों।
उस शब्द में से उपसर्ग, मूल शब्द व प्रत्यय अलग - अलग करके लिखिए।

उत्तर: **बेईमानी** - उपसर्ग ' बे ' , मूल शब्द ' ईमान ' व प्रत्यय ' ई '

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प्रश्न 2 - कोष्ठक में दिए गए उचित कारक चिह्न से वाक्य पूर्ण कीजिए-

(क) मुझे रास्ते में मेरा दोस्त मिल गया। (ने / में)

(ख) पेड़ से पत्ता गिरा। (से / पर)

(ग) हाथी ने सेना को कुचल दिया। (पर / ने), (को / पर)

(घ) हे! प्रभु हमारे अवगुणों का नाश कीजिए। (हे! / अरे!), (की, का)

(ङ) राम भगवान ने रावण को बाण से मारा। (ने / में) , (को / का) , (की , से)

प्रश्न 3 - निम्नलिखित वाक्यों को शुद्ध करके अपनी पुस्तिका में पूर्ण वाक्य पुनः लिखिए -

(क) उसके खीर खाई |

उत्तर: उसने खीर खाई |

(ख) वह स्कूल को जा रहा है |

उत्तर: वह स्कूल जा रहा है |

(ग) अनीता और मीता ने यह काम करा |

उत्तर: अनीता और मीता ने यह काम किया |

(घ) मानस कुर्सी में बैठा है |

उत्तर: मानस कुर्सी पर बैठा है |

(ङ) मेरे को वे पुस्तकें चाहिए |

उत्तर: मुझे वे पुस्तकें चाहिए |

प्रश्न 4 - उचित मुहावरों के द्वारा रिक्त स्थानों की पूर्ति कीजिए -

{ आँचल पसारना , आग- बबूला होना , आँख उठाना , आँखें खुलना }

(क) जब माँ को ये पता चला कि मीना ने ही पड़ोसियों के पेड़ से आम चुराए हैं तो वे आग- बबूला हो गईं |

(ख) परीक्षा परिणाम आने पर रोहित की आँखें खुल गईं और उसने मेहनत करने की ठान ली |

(ग) माँ ने मेरी सफलता के लिए भगवान के सामने आँचल पसारकर प्रार्थना की।

(घ) देश के दुश्मनों को हमारी सेना के जवानों ने ऐसा सबक सिखाया कि वे अब हमारी ओर आँख उठाने का साहस नहीं करेंगे |

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प्रश्न 5 - निम्नलिखित लोकोक्तियों का उनके अर्थ से मिलान कीजिए -

(क) आगे कुआँ, पीछे खाई	चारों ओर से संकटों से घिरा होना
(ख) आम के आम, गुठलियों के दाम	दोहरा लाभ होना
(ग) अंधे के हाथ बटेर	संयोग से सफलता प्राप्त कर लेना
(घ) आ बैल मुझे मार	स्वयं के लिए कोई मुसीबत खड़ी कर लेना

प्रश्न 6 - संवाद लेखन - स्व विवेकानुसार

संवाद सार्थक व विषयानुरूप हों। दिया गया विषय पूर्ण हो जाए। विद्यार्थी पौष्टिक भोजन का महत्व समझकर उसे अपना लें। शब्द - सीमा का पालन हो।

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Mathematics

Topic: Perimeter and Area

Q1. Find the perimeter of the following:

(i) Rectangle with length = 10.5 cm, breadth= 8.2cm

Solution: Perimeter = $2 \times (l + b)$
 $= 2 \times (10.5 \text{ cm} + 8.2 \text{ cm})$
 $= 2 \times (18.7)$
 $= 37.4 \text{ cm}$

Answer. Perimeter = 37.4 cm

(ii) Square with each side = 13.7 m

Solution: Perimeter = $4 \times \text{side}$
 $= 4 \times 13.7 \text{ m}$
 $= 54.8 \text{ m}$

Answer. Perimeter = 37.4 cm

(iii) Equilateral triangle with each side measures 110 mm.

Solution: Perimeter = $3 \times \text{side}$
 $= 3 \times 110 \text{ mm}$
 $= 330 \text{ mm}$

Answer. Perimeter = 330 mm

(iv) Regular hexagon with each side = 2.9 cm

Solution: Perimeter = $6 \times \text{side}$
 $= 6 \times 2.9 \text{ cm}$
 $= 17.4 \text{ cm}$

Answer. Perimeter = 17.4 cm

(v) Rectangle with area = 200.25 square cm and breadth= 5 cm

Solution: Length of the rectangle = $\text{Area} \div \text{breadth}$
 $= 200.25 \text{ square cm} \div 5 \text{ cm}$
 $= 40.05 \text{ cm}$

Now Perimeter = $2 \times (l + b)$
 $= 2 \times (40.05 \text{ cm} + 5 \text{ cm})$
 $= 2 \times 45.05 \text{ cm}$
 $= 90.1 \text{ cm}$

Answer. Perimeter = 90.1 cm

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Q2. Find the area of the following:

(i) Rectangle with length = 15cm and breadth = 0.05m

Solution: Area = length x breadth
= 15 cm x 0.05 m
= 15 cm x 5 cm
= 75 square cm

Answer. Area = 75 square cm

(iii) Square with each side = 15 m

Solution: Area = side x side
= 15 m x 15 m
= 225 square metre

Answer. Area = 225 square metre

(iv) Rectangle with perimeter = 20 m and length = 6 m

Solution: Breadth of the rectangle = $\frac{\text{Perimeter} - \text{length}}{2}$
= $\frac{20\text{m} - 6\text{m}}{2}$
= 10m – 6 m
= 4 m

Now Area = length x breadth
= 6 m x 4m
= 24 square metre

Answer. Area = 24 square metre

(v) Square with perimeter = 44.12 m

Solution: Side of a square = Perimeter ÷ 4
= 44.12 m ÷ 4
= 11.03 m

Now Area = side x side
= 11.03 m x 11.03 m
= 121.6609 sq. m

Answer. Area = 121.6609 sq. m

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Q3.

(i) Find the distance covered by Parth.

Solution: Distance covered in one round = Perimeter of the layout of his house
 $= 5.5 \text{ m} + 3.4 \text{ m} + 2.5 \text{ m} + 2 \text{ m} + 6 \text{ m}$
 $+ 1 \text{ m} + 3 \text{ m} + 0.4 \text{ m}$
 $= 23.8 \text{ m}$

Distance covered in 5 rounds = $5 \times 23.8 \text{ m} = 119 \text{ m}$

Answer. Parth covers 119 m

(ii) Find the distance covered by Krishna.

Solution: Distance covered in one round = Perimeter of the layout of his house
 $= 5 \text{ m} + 7 \text{ m} + 3 \text{ m} + 4 \text{ m} + 4 \text{ m} + 3 \text{ m}$
 $1 \text{ m} + 5 \text{ m}$
 $= 32 \text{ m}$

Distance covered in 6 rounds = $6 \times 32 \text{ m} = 192 \text{ m}$

Answer. Krishna covers 192 m.

(iii) Who covered more distance and how much more?

Solution: As $192 \text{ m} > 119 \text{ m}$

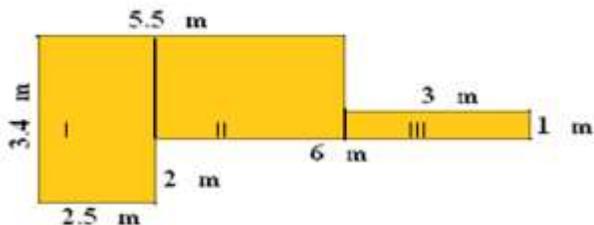
\Rightarrow Krishna covers more distance

Difference of their distances = $192 \text{ m} - 119 \text{ m} = 73 \text{ m}$

Answer. Krishna covers 73 m more.

(iv) Find the areas of both the layouts by dividing figure into rectangles.

Solution:



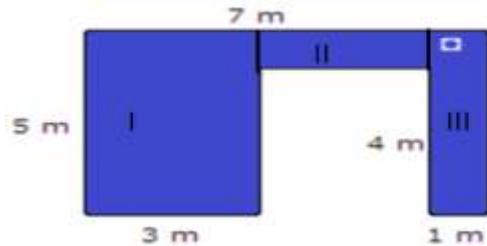
Area of rectangle I = $l \times b = 3.4 \text{ m} \times 2.5 \text{ m} = 8.5 \text{ sq. m}$

Area of rectangle II = $l \times b = (5.5 \text{ m} - 2.5 \text{ m}) \times (3.4 \text{ m} - 2 \text{ m})$
 $= 3 \text{ m} \times 1.4 \text{ m} = 4.2 \text{ sq. m}$

Area of rectangle III = $l \times b = 3 \text{ m} \times 1 \text{ m} = 3 \text{ sq. m}$

Total area of Parth's house = $8.5 \text{ sq. m} + 4.2 \text{ sq. m} + 3 \text{ sq. m}$
 $= 15.7 \text{ sq. m}$

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Area of Rectangle I = $l \times b = 5\text{m} \times 3\text{m} = 15 \text{ sq. m}$

Area of Rectangle II = $l \times b = (7\text{m} - 4\text{m}) \times (5\text{m} - 4\text{m})$
 $= 3\text{m} \times 1\text{m} = 3 \text{ sq. m}$

Area of Rectangle III = $l \times b = 5\text{m} \times 1\text{m} = 5 \text{ sq. m}$

Total area of Krishna's house = $15 \text{ sq. m} + 3 \text{ sq. m} + 5 \text{ sq. m}$
 $= 23 \text{ sq. m}$

Answer. Area of Parth's house = 15.7 sq.m and of Krishna's house is 23sq.m

(v) Which house is bigger? Find the difference.

Solution: As $23 \text{ sq. m} > 15.7 \text{ sq. m}$

=> Krishna's house is bigger.

Difference in Areas = $23 \text{ sq. m} - 15.7 \text{ sq. m}$
 $= 7.3 \text{ sq. m}$

Answer. Krishna's house is bigger by 7.3 sq. m.

Q4.

(i) Length and breadth of rectangular field

Solution: Length = 12 m, breadth = 10 m

(ii) Area of the entire rectangular field, also the area of flower beds and the grass path

Solution: Area of the entire field = $l \times b$
 $= 12 \text{ m} \times 10 \text{ m}$
 $= 120 \text{ sq. m}$

Area of 1 flower bed = $l \times b$
 $= 5 \text{ m} \times 4 \text{ m}$
 $= 20 \text{ sq. m}$

Area of 4 flower beds = $4 \times 20 \text{ sq. m}$
 $= 80 \text{ sq. m}$

Area of grass path = $120 \text{ sq. m} - 80 \text{ sq. m}$
 $= 40 \text{ sq. m}$

Answer. Area of entire field = 120 sq. m, area of flower beds = 80 sq. m,
 area of grass path = 40 sq. m

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(iii) Perimeter of the entire field

Solution: Perimeter = $2 \times (l + b)$
 $= 2 \times (12\text{m} + 10\text{m})$
 $= 2 \times 22 \text{ m}$
 $= 44 \text{ m}$

Answer. Perimeter of the field is 44m.

(iv) If they have 100 m rope with them in the farm house, is this enough to fence the field?

Answer. Yes

(v) After fencing will there be any rope left? If yes, how much rope will be left?

Answer. Yes, length of rope which will be left = $100\text{m} - 44\text{m} = 56\text{m}$

(vi) If the cost of developing the flower beds is ₹ 50 per square metre, and the cost of developing grass field is ₹ 60 per square metre, what is the total cost of developing garden.

Solution: Cost of developing flower beds = Area of flower beds x unit cost
 $= 80 \text{ sq. m} \times 50$
 $= ₹ 4000$

Cost of developing grass field = Area of grass field x unit cost
 $= 40 \text{ sq. m} \times ₹ 60$
 $= ₹ 2400$

Total cost of developing garden = ₹ 4000 + ₹ 2400
 $= ₹ 6400$

Answer. Total cost of developing garden is ₹ 6400

(vii) If the cost of fencing is ₹ 45 per metre, find the total cost of fencing.

Solution: Cost of fencing = Perimeter of the field x unit cost
 $= 44 \text{ m} \times ₹ 45$
 $= ₹ 1980$

Answer. The cost of fencing is ₹ 1980

(viii) Find how much money they would have spent in all if they would have hired professionals.

Solution: Total cost = ₹ 6400 + ₹ 1980
 $= ₹ 8380$

Answer. They would have spent ₹ 8380.

Q5. Activity: PLAN YOUR DREAM HOME
(open ended)

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Science

Topic: Nutrition in Plants

Q.1 Categorize the following animals on the basis of their food habits:

Answer: The animals are parasites.

Q.2 How do these animals derive their food?

Answer: These animals derive their food from living hosts. They either live on or inside the host to derive their food.

Q.3 What type of heterotrophic nutrition is followed by the above animals?

Are there any other plants that follow the same mode of nutrition? Name them.

Answer: These animals follow parasitic mode of nutrition. Yes, Cuscuta, Rafflesia, Mistletoe, fungi

Q.4 Why is Cuscuta not able to make its own food? Do you think it also depends on the host plant for water and minerals?

Answer: Cuscuta is unable to make its food because it lacks chlorophyll. Yes. It also depends on host plant for its water and mineral requirement as it doesn't even have roots.

Q.5 Considering the characteristics of cuscuta, what category of parasites does it belong to?

Answer: Cuscuta is a complete parasite .

Q.6 Do you think mistletoe depends on the host plant for food? Explain your answer.

Answer: Mistletoe doesn't depend on host plant for food as it has green leaves and can make its own food.

Q.7 Would you categorize mistletoe as a complete, total or partial parasite?

Answer: Mistletoe would be categorized as partial parasite as it doesn't depend entirely on host plant for all its requirements.

Q.8. Identify the insectivorous plants shown below:

Answer: Picture 1- Pitcher plant Picture 2- Venus flytrap

Q.9 Take a close look at the above plants. Do you notice that they have green leaves? Can they photosynthesize?

Answer: These insectivorous plants have leaves and can photosynthesize.

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Q.10 Categorize the above plants as complete, total or partial heterotrophs.

Answer: The above plants would be categorized as partial heterotrophs.

Q.11 Why do the plants (in the above pictures) have brightly coloured structures?

Answer: The plants have brightly coloured structures to attract insects towards them.

Q.12 Since these plants digest insects, do they also produce digestive juices to digest them?

Answer: Yes, these plants produce digestive juices to digest insects.

Research and find out: Is rafflesia a parasitic plant? How does it obtain its nutrition?

Answer: Yes, Rafflesia is a parasitic plant. It is a plant without stem, leaves or roots. It lives inside vines and spread its absorptive organ, the haustorium, inside the tissue of the vine.

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Social Science

Topic: Interior of the Earth

Q.1 Match the layers of the Earth with their definitions:

Answer:

Layers		Definitions	
A	Lithosphere	A	It is the rigid outermost layer of the earth which is made up of rocks and minerals.
B	Outer core	B	The only liquid layer is made up of mostly iron and nickel that lies below the mantle.
C	Crust	C	It is the uppermost and the thinnest layer which is about 35 km on the continental masses and only 5 km on the ocean floor.
D	Mantle	D	This layer lies between the crust and the core which contains the magma.
E	Asthenosphere	E	Hot, malleable semi liquid in the upper mantle on which the plates of the lithosphere float.
F	Inner core	F	The innermost layer is extremely hot and solid is called nife.

Q.2 Write the geological term for:

a) The study of rocks.

Answer: Petrology

b) The action of surface processes that removes soil, rock or dissolved materials from one location on the earth's crust and then transports it to another location.

Answer: Erosion

c) Breaking of rocks on the surface of the earth.

Answer: Weathering

d) The remains of dead plants and animals trapped in the layers of rocks.

Answer: Fossil

e) Naturally occurring substances with fixed chemical composition.

Answer: Minerals

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Q.3 Answer the following questions in one word:

a) Which type of rock is formed when lava cools and hardens?

Answer: Igneous

b) In which type of rocks, do most fossils occur?

Answer: Sedimentary

c) Which type of rocks have visible flat layers?

Answer: Sedimentary

d) Which type of rock is formed when bits of rocks are layered and cemented together?

Answer: Sedimentary

Q.4 Choose the correct option:

a) Which, among the following, is a primary rock?

i. Igneous

ii. Sedimentary

iii. Metamorphic

iv. Intrusive rocks

b) Igneous rocks that cool quickly on the surface of earth are:

i. Intrusive

ii. Extrusive

iii. Crystalline

iv. Volcanic rocks

c) The type of rock which might contain evidence of past life is:

i. Igneous

ii. Sedimentary

iii. Metamorphic

iv. Crystalline

d) The type of rock which changes by intense heat/pressure is:

i. Igneous

ii. Sedimentary

iii. Metamorphic

iv. Intrusive rocks

e) Magma that cools slowly beneath the earth's surface produces:

i. Intrusive

ii. Extrusive

iii. Crystalline

iv. Volcanic rocks