

St. Mary's School, Dwarka
Holiday Homework
Class X
Week 4
Worksheet 4

Subject: English

READING

Q1. Read the following passage carefully.

1. There are two types of celebrations. One is thanksgiving, an expression of gratitude for the Divine. The second comes from dropping the past and moving forward, knowing that life is eternal. Any excuse to celebrate is good.
2. In a true celebration, you are not just having a party, when sanctity is attached to it, celebration becomes complete. The body, mind and the spirit rejoice. If celebration uplifts and unites all around you, if it frees them of the traumatic past and hold out hope for the future, then you will not feel guilty. That type of celebration is service. It is sacred. Turn your celebration into a sacred offering for society rather than a self-centred, pleasure- seeking one.
3. When celebration has a tinge of sanctity and prayer, it gains depth and dignity. It is not just entertainment for the mind or excitement for body, but nourishment for the soul. Celebration is an attitude. To celebrate, you don't have to spend a lot of money. Celebration comes from enthusiasm and joy. When you are depressed, that's when celebration is needed the most. Reconcile with the past and move on to the future with enthusiasm. Share what you have with others.
4. Difficulties give you depth and joy gives you width. The wise see their past as destiny, the future as free will and are happy in the present. The unwise regret the past, think the future is destined and are miserable in present.
5. Some people think being silent is spirituality. Some think only celebration is spirituality. Celebration that comes out of silence is real celebration. This creation is enormous and infinite. It is a mystery. Trying to understand mystery is confusion, but living it fully is called enlightenment.

Q1. Based on the reading of the above passage, answer the following questions.

(1x5=5)

- i) When can one enjoy absolute celebration?
- ii) How can celebration become nourishment for the soul?
- iii) When can celebration gain importance? What should be done to ensure it?
- iv) How do the wise and the unwise perceive life?
- v) Pick out the words from the passage which mean the same as the following:
 - a) delight (para 2)
 - b) sobriety (para 3)

WRITING & GRAMMAR

Q2. You are Mohit Sharma residing at Flat.no 22, Street No.10, Mandela Road, Uttamnagar, Pune -25. Write a letter to the Editor of the local daily newspaper in about 120 words expressing your concern about the nuisance created by the loud speakers in your locality. Also suggest some ways to counter the problems. (3)

Q3. The following passage has not been edited. There is an error in each line against which a blank is given. Identify the incorrect word and write the correct word in your answer sheet. (1/2x4=2)

Error	Correction
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Pollution is one of the most serious problems we face.

This problem was fairly complicated

i).....

for much of pollution is caused of objects

ii).....

and activities that benefit mankind. Two thirds in

iii).....

Delhi's appalling atmospheric pollution is caused from

iv).....

vehicles.

Q4. Read the following conversation and complete the paragraph that follows:-

(1/2x4=2)

Mother: What are you doing?

Radha: I am ironing my dress.

Mother: Can you help me in the kitchen?

Radha: Not now but after I finish my work.

Mother asked Radha(a)_____. Radha replied that (b)_____. Mother further asked Radha(c) _____. Radha said that(d)_____.

Q5. Fill in the blanks with the correct form of the word given in the bracket:-

(1/4x4=1)

Abdul(a)_____ (reach) the Feroze Shah Kotla Stadium quite late. On reaching there he found that the organisers(b)_____ (already close) the ticket booking window. Most of the spectators (c)_____ (take) their seats. Abdul(d) _____ (disappoint) with himself as he couldn't see the match.

LITERATURE

Q6. "For the past few days I had been pleasantly besieged by the dignitaries and the world leaders who came to pay their respect before the inauguration."

a) Who does 'I' refer to in the above line? (1)

b) What was the occasion? (1)

Answer the following questions in 20 to 30 words:- (2x2=4)

Q7. What impression do you form of the postmaster after reading the story "A Letter to God"?

Q8 Why was the apartheid regime in South Africa, one of the harshest and the most inhuman systems in the world?

Answer the following questions in 50 to 60 words:- (3x3=6)

Q9. How was Mrs. Pumphrey, an over-indulgent mistress?

Q10. 'A man who takes away another man's freedom is a prisoner of hatred'. Justify the statement.

Subject: Hindi

प्रश्न 1 'ग्लोबल वार्मिंग-मनुष्यता के लिए खतरा' विषय पर संकेत बिंदुओं के आधार पर 100 से 150 शब्दों में अनुच्छेद लिखिए। (4×1=4)

संकेत बिंदु

- ग्लोबल वार्मिंग क्या है ?
- ग्लोबल वार्मिंग के कारण
- ग्लोबल वार्मिंग के प्रभाव
- समस्या का समाधान।

प्रश्न 2 आप राम /रमा नामक विद्यार्थी है जो द्वारका के 'न्यू एरा पब्लिक स्कूल' में पढ़ते हैं। कोरोना की वजह से आपके परिवार की आर्थिक स्थिति खराब हो गई है। इस विषय पर विद्यालय के प्रधानाचार्य को प्रार्थना पत्र लिखिए जिसमें अपने परिवार की खराब आर्थिक स्थिति का उल्लेख करते हुए आर्थिक सहायता पाने का निवेदन लगभग 120 शब्दों में किया गया हो। (4×1=4)

प्रश्न 3 पवन पंखा बनाने वाली कंपनी अपने पंखों की बिक्री बढ़ाना चाहती है। आप उसके लिए लगभग 50 शब्दों में एक आकर्षक विज्ञापन तैयार कीजिए। (4×1=4)

प्रश्न 4 आप राजेन्द्र अपार्टमेंट राजेन्द्र नगर दिल्ली के आर डब्ल्यू ए के सचिव हैं। गांधी जयंती के शुभ अवसर पर आर डब्ल्यू ए के सदस्यों ने डॉक्टरों की देखरेख में रक्तदान शिविर का आयोजन किया है। इच्छुक व्यक्ति रक्तदान हेतु सादर आमंत्रित हैं। इस संबंध में लगभग 50 शब्दों में सूचना आलेख तैयार कीजिए। (4×1=4)

प्रश्न 5 'चतुर अर्जुन' शीर्षक पर 120 शब्दों में सुन्दर लघुकथा लिखिए। (4×1=4)

Subject - Mathematics

- Q- 1. The decimal expansion of the rational number $\frac{43}{2453}$ will terminate after how many places of decimals? (2)
- Q- 2. Three bells toll at intervals of 9, 12, 15 minutes respectively. If they start tolling together, after what time will they next toll together? (2)
- Q-3 Two tankers contain 850 liters and 680 liters of petrol. Find the maximum capacity of a container which can measure the petrol of each tanker in the exact number of times. (2)
- Q-4 Show that $2\sqrt{2}$ is an irrational number. (2)
- Q-5 What are the possible values of remainder r , when a positive integer a is divided by 3? (2)
- Q-6 Write whether the square of any positive integer can be of the form $3m + 2$, where m is a natural number. Justify your answer. (3)
- Q-7. Find the value of m , if $x + 4$ is a factor of the polynomial $x^2 + 3x + m$. (3)
- Q-8. Show that $p - 1$ is a factor of $p^{10} + p^8 + p^6 - p^4 - p^2 - 1$. (3)
- Q-9 Using prime factorisation method, find the HCF and LCM of 30, 72 and 432.
- Also show that $\text{HCF} \times \text{LCM} \neq \text{Product of the three numbers}$. (3)
- Q-10 Prove that $\sqrt{5}$ is irrational and hence show that $3 + \sqrt{5}$ is also irrational. (3)

Subject: Science

Project work

Watch the movie 'Racing Extinction (2015)' on Netflix or YouTube and answer the following questions:

- Q1. What is the core message reflected in the movie?
- Q2. Find out the record of mass extinctions from the internet and represent the same on a timeline.
- Q3. Enlist five causes that led to species extinction in the past.
- Q4. List three species that have become extinct due to human activities.
- Q5. Design a campaign to create awareness amongst the citizens to prevent a possible sixth mass extinction.

Q1. How is transpiration pull responsible for upward movement of water? (2)

Q2. A 5cm tall object is placed perpendicular to the principal axis of a convex mirror of focal length 10 cm. The distance of the object from the mirror is 15 cm. Draw the corresponding ray diagram. (2)

Q3. The refractive index of water and glass with respect to air are $\frac{4}{3}$ and $\frac{3}{2}$ respectively.

Calculate the refractive index of:

i) water with respect to glass ii) glass with respect to water. (2)

Q4. How will you indicate the following effects in a chemical equation? Give one example of each.

a) A solution made in water b) Exothermic reaction (2)

Q5. Enlist the digestive glands associated with the alimentary canal. Name their secretions. (3)

Q6. The absolute refractive indices of four media A, B, C and D are given in the following table:

Medium	A	B	C	D
Refractive Index	1.33	1.50	1.52	2.40

a) If the light travels from one medium to another, in which pair of medium will the change in speed be

(i) minimum, (ii) maximum?

b) Identify the rarest and densest medium from the table given above. Justify your answer. (3)

Q7. Full dome mirror is a reflective hemisphere used for security purposes. A 30cm diameter full dome mirror is attached to the ceiling in a retail business. A 1.5m tall suspicious customer stands 2.0m away from this mirror. Determine:

1. the focal length of the mirror
2. the image distance of the suspicious customer.
3. the image height of the suspicious customer.

(3)

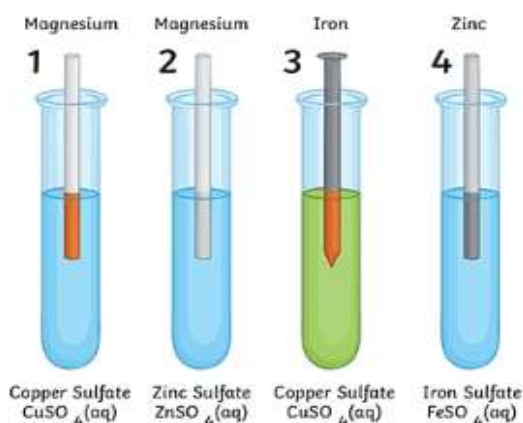
Q8. "Decomposition reactions are mostly endothermic reactions." To justify this statement, explain three types of decomposition reactions with one chemical equation of each.

(3)

Q9. Draw a well labelled diagram of human heart.

(5)

Q10. Observe the following experiment and identify the following:



- a) Type of chemical reactions in beakers 1,2,3,4.
- b) Write all the chemical equation to represent the above changes.
- c) Arrange elements iron, magnesium, copper, zinc in their decreasing order of reactivities.

What will happen if iron nail is dipped in the aqueous solution of magnesium sulphate?

(5)

Subject: Social Science

- Q1. What is Plebiscite? 2
- Q2. Which of the following statement defines Sustainable Development? 2
- A. Sustainable use of natural resources without considering the need of the future generation.
 - B. Present generation fulfils its needs while considering the needs of the future generation as well.
 - C. It means utilization of natural resources by the past, present and forthcoming future generation.
 - D. To meet the needs of the future generations even if the needs of the present generation go unmet.
- Q3. Give some examples where factors other than income important aspects of our lives are. 2
- Q4. What do you understand by the community government? What is its advantage? 2
- Q5. What do you learn from the principles followed in Belgium and Sri Lanka i.e. majoritarianism in Sri-Lanka and accommodation in Belgium? 3
- Q6. How has the destruction of forests and wildlife resulted into the loss of cultural diversity? 3
- Q7. How are forests classified under different categories? Explain with examples. 3
- Q8. Nation state was the result of nationalism. Explain. 3
- Q9. What is development? Explain the indicators used by UNDP for measuring development . 5
- Q10. On a political map of India mark the following features: - 5
- A. Mark the region where transported soil is found.
 - B. Region of Laterite soil
 - C. National park in West Bengal
 - D. Region where soil is formed by the process of in situ
 - E. Bandhavgarh national park

Subject: Computer Science

I Answer the following:

1. In the Indexes and Tables tab explain the following attributes: 1x3=3
 - a) Adding A Title
 - b) Protecting Against Manual Changes
 - c) Changing the Number of Levels
2. What are templates? What are the advantages of using templates? 1+2=3
3. Give three examples of databases in which the Data Source can be created. 1x3=3
4. Explain any four Graphic filters. 1x4=4
5. Define the following styles in reference to Writer. 1x2=2
 - a. Paragraph style
 - b. Character style

Practical Task:

Create a presentation on the topic: Communication Skills which must include the following points:

- Communication Cycle
- Types of Communication
- 7 Cs of Communication
- Barriers to an effective communication
- Importance of feedback in a communication