

St. Mary's School, Dwarka
Holiday Homework
Class X
Week 3
Worksheet 3

Subject: English

READING

Q1. Read the following passage carefully.

1. What makes a place sacred? A place where meditation is practised over many years automatically acquires certain powers. The place gets charged with the energy and vibrations from peaceful thoughts. Depending on the intensity of meditators, the sanctity and power of a particular place can thus remain charged, exuding powerful vibrations, for thousands of years. The Parshvanath Hills is one such place. Twenty-two of the 24 Jain Tirthankaras attained nirvana on this hill, and these enlightened persons were separated by thousands of years.

2. When a Tirthankara leaves his body, the equivalent of an atomic explosion takes place. The energy that united body and soul is released. This power is dispersed on the hill. The whole atmosphere and surroundings get surcharged. What the Parshvanath Hills are to the Jains, the Ganga is to the Hindus.

3. Lord Krishna said, "Among the armed, I am like Ram; I am like a crocodile among fish and the Ganga among rivers. I am the beginning, the end and even the middle of existence". The symbolism of the Ganga is worth understanding. Take away the Ganga from India and all the literature of India will become incomplete. Take away the Ganga and the names of many sages will perish; the spirit of pilgrimage will be lost. The Ganga has become the symbol of our collective spirit.

4. What is so special about the Ganga? There are rivers that are much longer, wider, larger, than the Ganga on this planet- the Brahmaputra, the Amazon, the Nile and the Hwang Ho...There is something unique about the Ganga that is not found in any of these great rivers: despite all the pollutants being pumped into the Ganga, it has somehow managed to maintain its relative purity. Chemically, it contains extraordinary properties - its water does not putrefy or deteriorate even if kept bottled for long, unlike the water from other rivers. It is interesting to know that the water of the Ganga has properties different from those of other rivers but which seem to undergo a mystical change once they flow into the Ganga's waters. This is a mystery that even science has not been able to understand, as yet.

On the basis of your understanding of the passage, answer the questions given below:- (1x5=5)

- i) How does a place acquire certain powers?
- ii) What happens when a Tirthankara leaves his body?
- iii) What is special about Ganga?
- iv) What is the extraordinary property possessed by the water in the Ganga river?
- (v) What does the Ganga river symbolize?

WRITING & GRAMMAR

Q2. You are Rajat/Rajni, Activity In-charge of Soham International School, Dwarka, New Delhi. Your school has been invited to participate in the Inter- State Science Exhibition at Blooms Public School, Connaught Place, New Delhi. Write a letter of inquiry to the Coordinator, enquiring about the details of the exhibition. (3)

Q3. Fill in the blanks with the correct form of the words given in the brackets words: (1/4x4=1)

The greatest advantage of rising early is that one can start one's work long before others. An early riser (i).....(do) a large amount of work before other men (ii).....(get) out of the bed. Early in the morning, the mind is fresh and there are no (iii) (disturb) sounds. The work (iv).....(do) at this time is generally well done.

Q4. 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
Flowers transform into fruits of a process	(i)_____	_____
called fertilization. Although that	(ii)_____	_____
process is most similar in many plants, the presence	(iii)_____	_____
of reproductive organs in a flowers and the	(iv)_____	_____
pollination process may vary.		

Q5. Read the following passage and complete the blanks that follow. (1x2=2)

Teacher: Why are you late today?

Vinod: I came on foot. I have an injury on my leg.

Teacher: You were late to the English class yesterday also.

The teacher asked Vinod (a)....., Vinod replied that(b)..... . The teacher told him that he was late to the English class a day before also.

LITERATURE

Q6. Read the following extracts and answer the questions:- (1x2=2)

He should be lurking in shadow

Sliding through the long grass

Near the water hole

Where plump deer pass

i) Who does 'he' refer to in the above stanza?

ii) Why should the tiger lurk in the shadow?

Answer the following questions in 20 to 30 words:-

(2x2=4)

Q7.What are the twin obligations of a man according to Nelson Mandela?

Q8.What was the post master's immediate reaction as he read the letter?

Answer the following questions in 50 to 60 words:-

(3x3=4)

Q9.Why were the household dogs not interested in Tricki initially?

Q10.Discuss one of messages that the poet wants to convey through the poem 'Dust of Snow'.

निम्नलिखित प्रश्नों के उत्तर दीजिए —

(2×6 = 12)

प्रश्न 1 पाठ 'बड़े भाई साहब' में लेखक के बड़े भाई की छवि कैसी है? एक परिवार में बड़े भाई या बहन का अपने छोटे भाई-बहनों के साथ कैसा व्यवहार होता है?

प्रश्न 2 बड़े भाई साहब की स्वभावगत विशेषताएँ बताते हुए आप अपने किन्हीं पाँच गुणों और अवगुणों के विषय में लिखिए।

प्रश्न 3 आज जो कुछ हुआ वह अपूर्व हुआ है। बंगाल के नाम या कलकत्ता के नाम पर कलंक था कि यहाँ काम नहीं हो रहा है वह आज बहुत अंश में धुल गया। लेखक ने ऐसा क्यों कहा है? क्या आपने कभी ऐसा कोई कार्य किया है जिसे करने में आपको संतुष्टि मिली हो। उसके विषय में लिखिए।

प्रश्न 4 कबीर की साखियों से क्या शिक्षा मिलती है ? तथा उनकी भाषा शैली पर प्रकाश डालिए।

प्रश्न 5 कृष्ण की चाकरी करने से मीरा को कौन-कौन से तीन लाभ मिल सकेंगे?

प्रश्न 6 मीरा के पद पाठ के अनुसार भक्त की रक्षा हेतु भगवान ने कौन -सा अवतार लिया था? क्या कभी आप किसी के द्वारा सहायता किए जाने पर उसके कृतज्ञ हुए है। उस विषय में लिखिए।

निम्नलिखित प्रश्नों के उत्तर दीजिए —

(2×4 = 8)

प्रश्न 7 हरिहर काका अपने परिवार से क्यों नाराज़ थे ? जब कभी आप अपने परिवार से नाराज़ होते हैं तो किस प्रकार आपकी नाराज़गी दूर की जाती है ?

प्रश्न 8 हरिहर काका के परिवार का स्वरूप कैसा था , आप संयुक्त परिवार या एकल परिवार किसे उचित समझते हैं और क्यों ? तर्क सहित उत्तर दीजिए।

प्रश्न 9 कथावाचक और हरिहर काका के बीच क्या संबंध है और इसके क्या कारण हैं ?

क्या आपका भी किसी बुजुर्ग व्यक्ति विशेष प्रेम है उसके विषय में लिखिए।

प्रश्न 10 गाँव के आस पास के इलाके में ठाकुरबारी की प्रसिद्धि के कारण क्या थे? क्या आपके आस पास भी कोई प्रसिद्ध स्थल है। उसके प्रसिद्धि के क्या कारण हैं?

Subject - Mathematics

- Q-1 Given that L.C.M.(91,26) =182, find H.C.F(91,26). (2)
- Q-2 State fundamental theorem of arithmetic with an example. (2)
- Q-3 Explain why $(17 \times 5 \times 11 \times 3 \times 2 + 2 \times 11)$ a composite number. (2)
- Q-4 Find the value of 'k' such that the polynomial $x^2 - (k+6)x + 2(2k-1)$ has sum of its zeroes equal to half of their product. (2)
- Q-5 If two positive integers are expressed in the form of $a=pq^2$ and $b= p^3q$ where a and b being prime numbers, then find the H.C.F (a,b). (2)
- Q-6 Prove that $\sqrt{5} + 2$ is an irrational number. (3)
- Q-7 Find the greatest number that will be divisible by 445,572 and 699 leaves a remainder 4,5,6 respectively. (3)
- Q-8 Without actually performing the long division ,find the decimal expansions of the following numbers: (3)
- (i) 987/10500 (ii)12/1250 (iii)17/3125.
- Q-9 Show that only one of the numbers n, n+2 and n+4 is divisible by 3 . (3)
- Q-10 Find the zeroes of the polynomial x^2-4x+3 . (3)

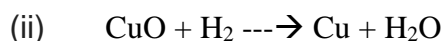
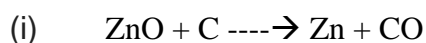
Subject: Science

Project Work

Take a tablespoon of baking powder in a glass tumbler. Add a pinch of food colour if available. Pour 50ml of vinegar in it.

- Note down your observation and explain it with the help of a relevant chemical equation.
- From the above information, write down the steps for creating a model. Support your presentation with a labelled diagram.

Q1. Identify the substances getting oxidized and reduced in the following chemical reactions.



(2)

Q2. What are the characteristics of an ideal respiratory surface?

(2)

Q3. Give reasons for the following:

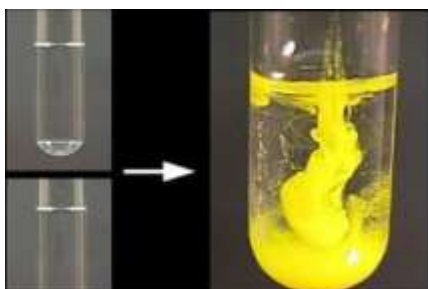
(2)

- Rings of cartilage are present in the trachea.
- Lungs always contain a residual volume of air.

Q4. While observing a specimen in a biology lab you used a microscope. You must have observed a mirror just below stage (place where you keep your slides). What is the function of that mirror. Which type of mirror is it?

(2)

Q5. Observe the following chemical reaction between the aqueous solutions of lead nitrate and potassium iodide and answer the following questions:



- Write the name and chemical formula of the yellow substance formed.
- Which type of chemical reaction(s) is this?
- Write the relevant chemical equation for this chemical reaction.

(3)

Q6. How do carbohydrates, proteins and fats get digested in human beings?

(3)

Q7. Why transpiration is considered as an essential process in plants?

(3)

Q8. When an object of height 4.2 cm is placed 10 cm from a concave mirror, its image is 15 cm behind the mirror. Calculate

- the focal length of the mirror.
- the magnification of the image formed.
- the height of the image.

(3)

Q9. Change the following into chemical equations and balance them-

- a) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.
- b) Methane gas burns in oxygen of air to form carbon dioxide and water.
- c) Calcium oxide combines vigorously with water to form calcium hydroxide.
- d) On passing electric current through molten aluminium oxide, it decomposes to form aluminium metal and oxygen gas.
- e) Magnesium metal burns in nitrogen gas to produce magnesium nitride. (5)

Q10. A mouse 1.2 cm high is standing 4.0 cm from a converging mirror of focal length of 30 cm.

- a) Find the position of the image using:
 - i) a ray diagram
 - ii) the mirror formula
- b) Determine the height of the image. (5)

Subject: Social Science

- Q1. Define the term National Income? 2
- Q2. Mohit is 28 years of age, has 65 kg of body weight and is 1.4 meters tall. Calculate his BMI. Find out whether he is under nourished or over weight. Why? 2
- Q3. What are the advantages of a nation? 2
- Q4. How is the power shared among different social groups and political parties? 2
- Q5. Examine the three major problems created as a result of indiscriminate utilization of natural resources. 3
- Q6. Write a short note on Rio de Janeiro Earth Summit, 1992, Brazil. 3
- Q7. What steps did the French revolutionaries take to create a sense of collective identity among the French people? 3
- Q8. What was Zollverein? When was it formed ? What were the advantages of it? 3
- Q9. Answer in short. (1+2+2=5)
- a). When did Belgium amended its Constitution?
 - b). Which are the border states of Belgium? To which Indian state is Belgium compared with?
 - c). Define the term 'Civil War' and 'Federalism'.
- Q10. On the basis of which three indicators of HDI 2004 Sri Lanka has better rank than India? 5

Subject: Computer Science

I Answer the following:

1. What are advantages of Mail Merge? 1
2. Write any two differences between styles and templates. 2
3. What do you mean by grouping object? Where is the 'Group' option available in the Format tab? 2
4. Explain following terms for positioning of graphic: 4
 - (a) Arrangement
 - (b) Alignment
 - (c) Anchoring
 - (d) Text Wrapping
5. What is the use of shift button in image resizing and image rotation? 2
6. Explain the following terms: 4
 - (a) Graphics Mode
 - (b) Flip vertically or horizontally
 - (c) Filters
 - (d) Transparency

Practical Task:

Perform the steps of Mail Merge wizard as shown in the image given below by creating an invitation and sending to at least 10 recipients.

