

**St. Mary's School, Dwarka**  
**Holiday Homework**  
**Class - IX**  
**Week 3**  
**Worksheet 3**

**Subject – English**

**SECTION A – READING**

**Q.1 Read the following passage carefully.**

Wangari Maathai devoted her life in protecting our planet and serving its people. As an academic, an activist and the founder of the Green Belt Movement, Wangari believed that saving our planet and changing our world went hand in hand. Through her work with the Green Belt movement, Wangari provided thousands of women with job training and opportunities and was responsible for the planting of millions of trees in her native country, Kenya. Wangari died of ovarian cancer in 2011, but not before leaving a substantial mark on the world she loved so much.

Wangari was born in a small village in Kenya in 1940. When she was eight years old, her family decided to send her to school. This was an unusual opportunity for girls in Kenya at this time but Wangari soon began to excel academically. In 1960, she earned a scholarship that allowed her to travel to the United States and attend college. She studied at a small Catholic school in Kansas where, in 1964, she earned her bachelor's degree in biology. From there, she moved to the University of Pittsburgh, where she earned a master's degree in biological sciences. After completing her master's degree, Wangari briefly studied in Germany before returning to Africa, where she continued her education at the University of Nairobi in her home country of Kenya. In 1971, she earned her doctorate in veterinary anatomy, making her the first woman in all of East and Central Africa to earn a doctorate degree. She continued to make history throughout her career in academics, eventually becoming the first woman in the region to chair a department and the first to become an associate professor.

In addition to her work as a professor, Wangari was also extremely active with the National Council of Women. In 1976, the same year she began chairing the Veterinary Anatomy department at the University of Nairobi, Wangari began talking to the Council of Women about an idea that would form the basis of the Green Belt Movement.

**1.1 On the basis of your reading of the above passage, answer the following questions:**

- a) What goals did Wangari set in her life? (1)
- b) How was Wangari involved in the social work? (2)
- c) What was an unusual opportunity for girls in Kenya? (1)

**1.2 Find a word from the passage which means the same as 'of considerable importance'. (1)**

**SECTION B- WRITING**

**Q2. Write a descriptive paragraph in 100-120 words about a person who has inspired and motivated you. (3)**

### SECTION C - GRAMMAR

**Q3. Fill in the blanks with appropriate words:**

**(1/4x4=1)**

Milk is a nutritious food enriched with vitamins and proteins. We **a)**.....take milk regularly so that we **b)**.....not develop deficiencies of undernourishment in our body. The aged persons, children and patients **c)** .....take milk in sufficient quantity as it provides strength to their body.

We **d)**..... supplement it with other elements of food like fruit, vegetables and pulses for proper growth of the body.

**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)**

	Incorrect	Correct
Gorelal was a famous sculptor. His sculptures looks like	looks	looked
real ones. One day, she saw a dream that after fifteen days,	a)_____	_____
the demon of death might come to take him. Gorelal	b)_____	_____
prepared nine statues of himself and in the fifteenth day,	c)_____	_____
when the demon of death was to come, he took his place	d)_____	_____
between the statues.		

**Q5. Complete the following with suitable words:**

**(1/4x4=2)**

Nature is an important a)\_\_\_\_\_ integral part of mankind. It is one of b)\_\_\_\_\_ greatest blessings for human life; however, nowadays humans fail to recognize it as one. Nature has been c)\_\_\_\_\_ inspiration for numerous poets, writers, artists and more of yesteryears. This remarkable creation inspired them to write poems and stories d)\_\_\_\_\_ the glory of it.

### SECTION D- LITERATURE

**Q6. Read the following passage and answer the following questions:**

‘They had once taken Tommy’s teacher away for nearly a month...’

- a. Who were they? Where had they taken Tommy’s teacher? (1)  
b. Why was the teacher taken away? (1)

Q7. Why did Tommy prefer a tele book? (2)

Q8. What advice did Ustad Bismillah Khan give to the parents? (2)

Q9. How did Evelyn Glennie hear music? (3)

Q10. Where did the child meet the gentleman? How did the gentleman try to console the child in the fair? (3)

## Subject: Hindi

### **प्रश्न - निम्नलिखित प्रश्नों के उत्तर दीजिए -**

- 1 'दुख का अधिकार' पाठ में लेखक पोशाक के विषय में क्या बताते हैं? आपके अनुसार पोशाक हमारे व्यक्तित्व का दर्पण कैसे है ? (2x1=2)
- 2 'दुख मनाने का भी एक अधिकार होता है।' लेखक ने ऐसा क्यों कहा है? आपके मतानुसार धनी और निर्धन लोगों के दुख मनाने में क्या अन्तर है ? (2x1=2)
- 3 रहीम जी किस धाने को न तोड़ने की बात कहते हैं और क्यों ? अपने रूँठे हुए मित्र को आप कैसे मनाएंगे ? (2x1=2)
- 4 आपके जीवन का लक्ष्य क्या है? इस लक्ष्य की प्राप्ति में आप किन कठिनाइयों का सामना कर रहे हैं ? अपने अनुभव के आधार पर बताइए कि किसी भी महान अभियान में हमें किन परिस्थितियों को सहजता से स्वीकार करना चाहिए? (2x1=2)
- 5 पहले पद में भगवान और भक्त की किन-किन चीजों से तुलना की गई है ? ईश्वर के समक्ष आप स्वयं को किस रूप में प्रस्तुत करते हैं ? (2x1=2)
- 6 कवि रैदास ने ईश्वर को किन किन नामों से पुकारा है? श्रीकृष्ण भगवान के कोई पाँच नाम लिखिए। (2x1=2)
- 7 सोनजुही की लता को देखकर लेखिका को क्या याद आ जाता था? अपने घर में लगाए अपने प्रिय पौधे के विषय में चार पंक्तियाँ लिखिए। (2x1=2)
- 8 लेखिका ने गिल्लू की जाली का दरवाजा क्यों खोल दिया ? क्या आपको पशु पक्षियों को कैद करके रखना अच्छा लगता है ? (2x1=2)
- 9 लेखिका ने कौओं को समादरित और अनादरित क्यों कहा है ? अपने बुर्जुओं द्वारा सुनी हुई किसी एक प्रथा के विषय में लिखिए। (2x1=2)
- 10 गिल्लू पाठ में लेखिका ने घायल गिल्लू का उपचार किस प्रकार किया? ऐसी जीवन की किसी घटना के आधार बताइए कि आहत पशु- पक्षियों की सुरक्षा एवं सेवा किन जीवन मूल्यों को प्रदर्शित करते हैं? (2x1=2)

## **Subject - Mathematics**

- Q1.** Write three rational numbers between  $\frac{5}{7}$  and  $\frac{7}{8}$ . (2)
- Q2.** Represent  $\sqrt{3.5}$  on the number line (2)
- Q3.** Visualize 3.756 on the number line, using successive magnification (2)
- Q4.** If  $x = 2 + \sqrt{5}$ , Prove that  $x^2 + 1/x^2 = 18$  (2)
- Q5.** Express  $1.\overline{3}2 + 0.35$  as a fraction in simplest form. (166/99) (3)
- Q6.** Rationalise the denominator  $1 / (\sqrt{6} + \sqrt{5} - \sqrt{11})$  (3)
- Q7.** If a and b are rational numbers, find a and b (3)
- $$(\sqrt{2} + \sqrt{3}) / (3\sqrt{2} - 2\sqrt{3}) = a + b\sqrt{6}$$
- Q8.** Define Rational number. (3)
- Q9.** If  $a = \sqrt{3} + \sqrt{2}$  and  $b = \sqrt{3} - \sqrt{2}$ , find the value of  $a^2 + b^2$  (5)
- Q10.** If  $a = 9 - 4\sqrt{5}$ , find the value of  $a - 1/a$  (5)

## **Subject: Science**

### **Project Work**

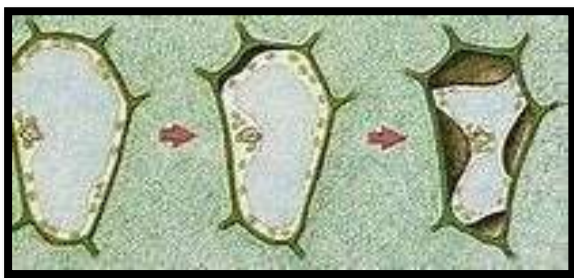
- a. Sow a mango seed or cutting of mint stem in a pot/ PET bottle/ empty packet/can.
- b. Make manure from kitchen waste. Follow the given steps:
  - i) In a container, put some soil.
  - ii) Add biodegradable waste (kitchen waste- fruit and vegetable peel, used tea leaves- wash them thoroughly before putting it in the pot.)
  - iii) Add jaggery solution to the above to accelerate the decomposition process.
  - iv) Once manure is ready use it for the pot.
- c. Water the plant using the method of drip irrigation. Follow the given steps:
  - i) Take a pipe and make small holes near one of its ends.
  - ii) Fix the pipe to a tap and use the end with the holes to water the plant.
  - iii) Let the water flow drop by drop near the roots.

**Q1.** Why does ice cream appear cooler to the teeth than ice-cold water? Explain. (2)

**Q2.** What are lysosomes? Why lysosomes are called the 'waste disposal system' of a cell? (2)

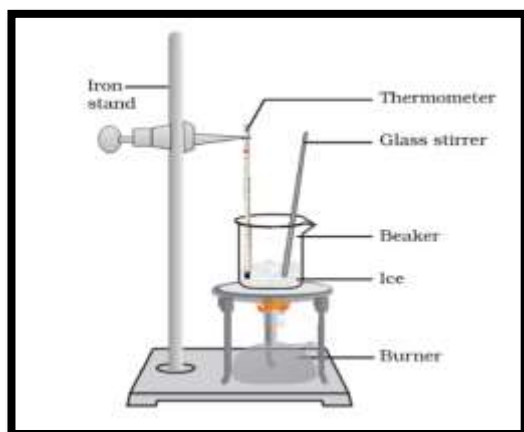
**Q3.** a) Identify the given figure below and explain the process shown. (2)

b) What will happen if this cell is kept in hypotonic solution?



**Q4.** An airplane accelerates down a runway at  $4 \text{ m/s}^2$  for 32 s until it finally lifts off the ground. Determine the distance travelled before it takes off. (2)

**Q5.** Observe the experimental set up: (3)



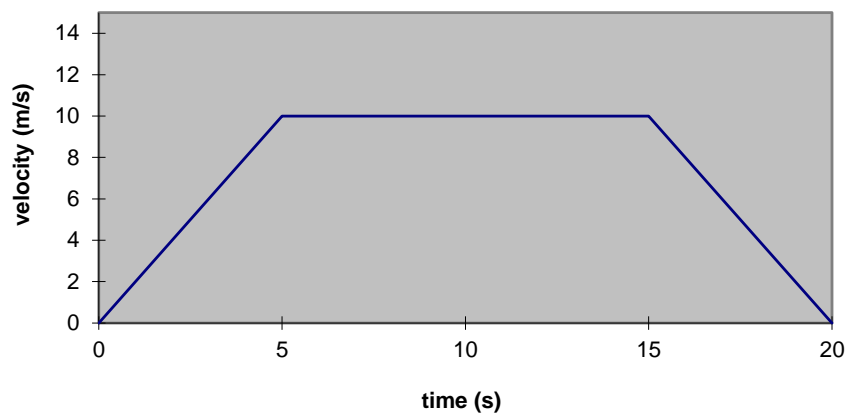
The setup shows melting of ice. For the first time interval  $t_1$ , the temperature gradually dropped. In the next time interval  $t_2$ , the temperature remained constant until all the ice melted. In the next time interval  $t_3$ , the temperature gradually increases.

- (i) Why did the temperature drop during  $t_1$ ?
- (ii) Why did the temperature remain constant during  $t_2$ ? What is this temperature known as?
- (iii) If salt is added to the water, will it show any change in the boiling point of water? Give reason.

**Q6.** What is a vacuole? Why do plant cells have large sized vacuole? (3)

**Q7.** Distinguish between hypotonic, isotonic and hypertonic solutions? (3)

**Q8.** The diagram given below shows velocity-time graph describing the motion of a car. (3)



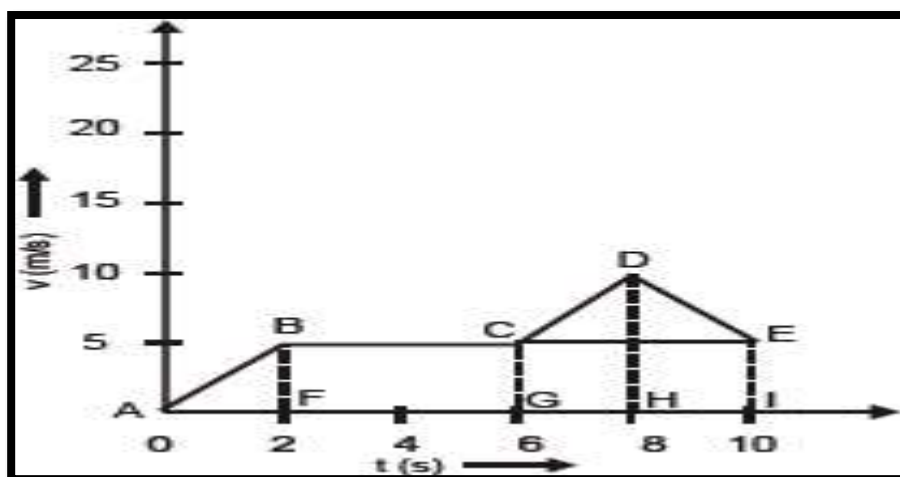
- a) What is the acceleration of the car in the first 5 seconds?
- b) What is the velocity at 15 seconds?
- c) Calculate the distance covered by the car during the time interval 5- 15 seconds.

**Q9.** Give reason for the following: (5)

- (i) Sweating is a life-saving strategy.
- (ii) Evaporation is a surface phenomenon.
- (iii) A wet handkerchief is placed on forehead of a person suffering from high fever.
- (iv) Wet clothes dry slowly during rainy season.
- (v) **Sponge is solid, but we can still compress it. Sponge is solid, but we can still compress it.**

**Q10.** The graph given below shows the velocity time graph of the motion of a body.

**(5)**



- Find the acceleration of the object from 2-6 seconds.
- Find the total displacement of the body from 0-2 seconds.
- Identify the time interval in which the object was decelerating.
- Calculate the deceleration of the object.
- Find the value of velocity when the object was in uniform motion.

## **Subject–Social Science**

- Q1.** Name the Indian state which has the longest coastline. What is the southernmost point of the Union of India? **2**
- Q2.** What is the longitudinal and latitudinal extension of India? State any two characteristic features of longitudes. **2**
- Q3.** Which hills are called the “Easternmost hills” in India and why? **2**
- Q4.** What are Barchans? Where can you spot barchans in India? **2**
- Q5.** How did the Green Revolution affect the cost of cultivation? **3**
- Q6.** What is Human Capital? List some problems of Human Capital formation in India? **3**
- Q7.** Name the major determinants of earning? Why are they consider to be a major determinant of earning? **3**
- Q8.** Analyse the importance of health in human capital formation. **3**
- Q9.** Answer in brief. **(1+2+2)**
- i). What is the electoral system in Fiji?
  - ii). Name the party and its leader which ruled Zimbabwe since independence.
  - iii). How democracy enhances the dignity of citizens.
- Q10.** Who were the Jacobins? What was their contribution to the French Revolution? **5**



## **Subject: Computer Science**

**Q1.** Sonia wants to preview a 7 page document and views each page by zooming them to 200%. Also, (2)  
she wants to take the printout of the even numbered pages such as 2, 4, 6.... .

**Q2.** Define the following:- (3)

- a) Table                      b) Merging a cell                      c) Splitting a cell

**Q3.** Akshita is an office assistant and handles all the correspondence work of the company. In the current month her company has made six new clients. Where will she add the contact details of these new clients while using the mail merge feature? (3)

**Q4.** Mention the advantages of Mail Merge. (3)

**Q5.** Differentiate between the following:- (4)

- a. Data Source and Main Document
- b. Print Preview and Print a document

### **Q6. PRACTICAL WORK:**

**Perform the following practicals on OpenOffice Writer and mention the steps with screenshots in a MS- Word document. (5)**

**Objective: To create multiple letters with one single document.**

a) Consider the following letter to be created as the main document. Save the letter as “**Employees**”

<<Title>><<First Name>><<Last Name>>

<<Address>

<<City>> , <<State>>

**Dear <<First Name>>**

As you may know, this year marks our 16th year of doing business. Since our launch over a decade ago, AdWorks has grown from a tiny startup into a robust company with over 200 employees throughout the Southeast. Our growth would not have been possible without loyal customers like you. Therefore, we would like to extend to you a 20% discount on your next order. It’s our way of saying “thanks” for your continued business. We’ll keep working hard to provide the best possible customer service along with innovative products, just as we’ve always done. Thanks again for choosing AdWorks!

Sincerely,

Liz Doe

President and CEO

b) Type the address list and enter the details of the following employees. Save the data source as **“EmployeesList”**.

<b>Title</b>	<b>Last Name</b>	<b>First Name</b>	<b>Address</b>	<b>City</b>	<b>State</b>
Ms.	Albertson	Kathy	1024 Lakeview Cir	Peachtree City	GA
Mr.	Brennan	Michael	1123 Main St	Wilmington	NC
Mr.	Davis	William	540 W 4th St, Apt 121	New York	NY
Ms.	Forest	Eliza	PO Box 4551	Reno	NV
Mr.	Jones	Dan	PO Box 805	Raleigh	NC
Ms.	Post	Melissa	3202 Maplewood Ave	Richmond	VA
Ms.	Thompson	Shannon	500 Acme Ln, Apt 3C	Springfield	IL
Mr.	Walters	Chris	436 Church St	Columbia	SC

c) Perform the steps to mail merge the letter and display the merged letter as the final document.