# St. Mary's School, Dwarka <br> Winter Holiday Homework Class IX 

## Subject: English

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in the English notebook.
3) Write questions along with the answers

Q1. You are Sachin/Snavya. You had the most difficult examination today, but you answered all the questions easily. Write a diary entry in about 100-120 words expressing your feelings when you scored the highest in the class.

## Q2. Choose the most appropriate word from the options given below and complete the following

 passage.( $1 / 2 \times 4=2$ )
26th January is a very special day (i) $\qquad$ India. It was on this day, India became a Sovereign Democratic Republic (ii) $\qquad$ 1950. Dr. Rajendra Prasad became the first President (iii) $\qquad$ the Indian Republic. 26th January is celebrated (iv) $\qquad$ great enthusiasm and fervour all over the country. First, the Prime Minister visits the Amar Jawan Jyoti at India Gate. There he offers floral tributes to the martyrs. Then, begins the colourful parade which starts from Vijay Chowk and ends at the Red Fort.
(i) (a) for (b) of (c) by (d) to
(ii) (a) on (b) in (c) for (d) to
(iii) (a) in (b) above (c) of (d)about
(iv) (a) for (b) with (c) in (d) by

Q3. Read the following conversation and complete the paragraph given below:
Customer: Please show me a good cap.
Shopkeeper: What kind of a cap do you need?
Customer: One that covers the face
Shopkeeper: It won't be a cap then; it would be a mask.

The customer requested the shopkeeper(i) $\qquad$ The shopkeeper asked customer
(ii) $\qquad$ . The customer told the shopkeeper(iii) $\qquad$ . At this the shopkeeper said (iv) $\qquad$ .

Q4. Fill in the blanks with the suitable form of the word given in the bracket:
Shalini (i) $\qquad$ (reach) Mrs. Rodrigues' pastry shop. She (ii) $\qquad$ (stop) for a while at the entrance. She saw that Mrs. Rodrigues (iii) $\qquad$ (arranged) pastries and Mr. Rodrigues (iv) $\qquad$ (count)the
cash at the counter.
Q5. Read the following stanza and answer the questions given below:
So, hack and chop
But this alone won't do it.
Not so much pain will do it.
The bleeding bark will heal
And from close to the ground
Will rise curled green twigs
Miniature boughs
Which if unchecked will expand again
To former size.
(a) Answer the following questions in 10-20 words.
i) What does 'it' refer to?
ii) Which literary device is used in 'bleeding bark'?
iii) What will rise from the ground?
iv) Name the poem and the poet of the above extract.
(b)Answer the following questions in about 50 words:
(i) How did Santosh Yadav manage to convince her parents to pay her school fees?

What qualities of Santosh are highlighted in this incident?
(ii) How did Lakshmana Sastry reform the new teacher?
(c) Answer the following question in about $\mathbf{8 0}$ words:

How did Sue help in saving Johnsy life?

## Subject: Hindi

## स्सामान्य निर्देश:

- दिए गास्ट सभी प्रश्नों के उत्तर त्विदी की उत्तर पुर्तिका में लिखिए।
- कार्य स्वच्छ थुदध षवं स्पष्ट लेख में कीजिए
- यधास्संभव प्रत्येक खंड के प्रश्नों के उत्तर कमश लिखिए ।

प्रश्न 1 निम्नलिखित बहुविक्रल्पीय प्रश्नों के उत्तर निर्देशानुस्सार दीजिए :-
प्रश्न क 'पुष्प' थब्द का वर्ण - विच्छेद क्या होगा ?
1 प् + उ + ष् + अ + प् + अ
2 प् + उ + ष् + प् + अ
3 प् + उ + ष् + अ + प्
4 प् + ऊ + ष् + प् + अ

प्रश्न ख 'राधिका ने पूटी महाभारत पढी है।'इस वाक्य में 'महाभारत' क्या है ?
1 संधि
2 शब्द
3 पद
4 किया

प्रश्न ग योजक चिद्न कौन-स्ता है
?
1
2 :
3 ?
4 -

प्रश्न घ '仓ितिहास्सिक' शब्द में मूल थब्द व प्रत्यय क्या होगा ?
1 इतिहानस + इक
2 इति + हासिक
3 ऐति + हासिक
4 इतिहान्स + ईक

प्रश्न ड़ 'परोपक्रार' शब्द का उचित संधि -विच्छेद क्या है ?
.1 परो + उपकार
2 पर + उपकार
3 परोप + कार
4 परो + पकार

प्रश्न च 'जल्दी जाकर अपना कार्य समाप्त करी।' अर्थ के आधार पर दिए गठ्ट वाक्य का भेद क्या है ?

1 इच्छावाचक वाक्य 2 विधानवाचक वाक्य
3 आज्ञावाचक वाक्य 4 संकेतवाचक वाक्य
निम्नलिखित प्रश्नों के उत्तर दीजिए -
प्रश्न 2 महादेव भाई और गॉधीजी के बीच कैसा संबंध था ?
प्रश्न 3 'अग्निपथ' कविता पाठकों को क्या संदेश देती है ?
प्रश्न 4 लेखक के घर कौन-कौन सी पत्र-पत्रिकाएँ आती थी ? लेखक के लिए वे पुच्तकें किस प्रकार सहायक बर्नी।
प्रश्न 5 दो मित्रों के बीच 'महिलाओं में बढ़ते आव्मविश्वास' के विषय में हुई बातचीत को 70 से 80 शब्दों में संवाद के रूप में लिखिए।
(5×1=5)

## Subject: Mathematics

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in the Mathematics notebook.
3) Show the calculations in a rough column in front of answers.

Q-1 Two chords AB and CD of lengths 5 cm and 11 cm respectively of a circle are parallel to each other and are on opposite sides of its centre. If the distance between AB and CD is 6 , find the radius of the circle.

Q-2 Calculate all the angles of a parallelogram if one of its angles is twice its adjacent angle.
$\mathrm{Q}-3 \mathrm{ABCD}$ is a cyclic quadrilateral whose diagonals intersect at a point E . If $\angle \mathrm{DBC}=70^{\circ}, \angle \mathrm{BAC}$ is
$30^{\circ}$, find $\angle B C D$. Further, if $A B=B C$, find $\angle E C D$.
$Q-4 \triangle A B C$ is an isosceles triangle in which $A B=A C$. Side $B A$ is produced to $D$ such that $A D=A B$. Show that $\angle B C D$ is a right angle.
$\mathrm{Q}-5$ Sides QP and RQ of triangle PQR are produced to point S and T respectively. If angle $\mathrm{SPR}=35^{\circ}$ and angle $\mathrm{PQT}=70^{\circ}$ find angle SQR and angle PRQ .

## Subject : Physics

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in the Physics notebook.
3) Write questions along with the answers.
4) All questions are to be answered in 30 to 40 words.

Q1. Suppose the radius of the Earth becomes twice of its original radius without any change in its mass. What will be the change in your weight?
Q2. A stone of mass 1 kg and another ball of mass 5 kg are dropped simultaneously from a height of 5 m from Earth's surface. Which of the two objects would reach the ground first and why?

Q3. The acceleration due to gravity on Moon's surface is $1.67 \mathrm{~ms}-2$. Calculate the mass of the Moon if the radius of the Moon is $1.74 \times 106 \mathrm{~m}$. $(\mathrm{G}=6.67 \times 10-11 \mathrm{Nm} 2 \mathrm{~kg}-2)$.

Q4. Two masses m and 2 m at rest attains velocities 2 v and v respectively on application force. Calculate the ratio of their kinetic energies.

Q5. Explain the transformation of energy in the situations given below.
a) An arrow moves forward when released from a stretched bow.
b) A light bulb glows when the switch is turned on.

## Subject :Chemistry

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in the Chemistry notebook.
3) Write questions along with the answers.
4) All questions are to be answered in 30 to 40 words.

Q1. (a) Convert the following temperature into Kelvin-
(i) $273^{\circ} \mathrm{C}$
(ii) $464^{\circ} \mathrm{C}$
(b) Convert the following temperature into degree Celsius-
(i) 890 K
(ii) 373 K

Q2. Differentiate between solids, liquids and gases on the basis of the following parameters-
(i) Inter-particle space
(ii) Kinetic energy

Q3. Write the molecular formulae of the following compounds and calculate their molecular mass
(i) Sodium hydrogen carbonate
(ii) Potassium sulphate

Q4. Define the following terms and give one example of each-
(i) Latent Heat of fusion
(ii) Relative atomic mass

Q5. Give reasons for the following-
(i) Water kept in an earthen pot becomes cold during summers.
(ii) Atoms are neutral but ions are charged.

## $\underline{\text { Subject :Biology }}$

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in the Biology notebook.
3) Write questions along with the answers.
4) All questions are to be answered in 30 to 40 words.

Q1. What are the criteria for selection of the crop for mixed cropping?

Q2. What is composite fish culture? Write its advantages.
Q3. An Italian bee variety Apis mellifera has been introduced in India for honey production. Write about its merits over other varieties.

Q4. If there is low rainfall in your area throughout the year, what measures will you suggest to the farmers for better cropping?

Q5. What are pests? How do insect pests damage the crops?

## Subject: History

## General Instructions:

- The work should be done neatly and in a systematic way.
- The given questions are to be done in the History notebook.
- Write questions along with the answers.
- All questions are to be answered in 30 to 40 words.

Q1. Why did the people of Bastar rise in revolt against the British?
Q2. How did the spread of railways from the 1850s in India, create new demand for timber?
Q3. "The people of Bastar speak different languages but share common customs and beliefs" Discuss.

Q4. Why did commercial forestry become important during British rule?
Q5. Write a note on Dietrich Brandis.

## Subject: Geography

## General Instructions:

- The work should be done neatly and in a systematic way.
- The given questions are to be done in the Geography notebook.
- Write questions along with the answers.
- All questions are to be answered in 30 to 40 words.

Q1. Differentiate between the West flowing rivers and East flowing river.
Q2. Where is Mawsynram located? Why does Mawsynram receive the highest amount of rainfall?
Q3. Where are Evergreen forests found in India? Name any two regions. Write any two characteristics of these forests.

Q4. Give the reasons for selecting longitude $82^{\circ} 30^{\prime}$ as the Standard Meridian of India.

Q5. (i) Features are marked by numbers in the given political map of India, identify these features with the help of the following information and write their correct names.

(ii) On the political map of India, locate and label the following:
(i) National Parks : Corbett, Kaziranga
(ii) Wildlife Sanctuaries : Sariska, Dachigam

## Subject: Economics

## General Instructions:

- The work should be done neatly and in a systematic way.
- The given questions are to be done in the Economics notebook.
- Write questions along with the answers.
- All questions are to be answered in 30 to 40 words.

Q1. What is the aim of National Health Policy of India?
Q2. Define Human capital and human capital formation. Name any two sources of human capital formation.

Q3. Explain any four effects of unemployment on the overall growth of the economy.
Q4. How were the British policies responsible for the increase in poverty in India?
Q5. What are the indicators used by social scientists to understand poverty?

## Subject: Political Science

## General Instructions:

- The work should be done neatly and in a systematic way.
- The given questions are to be done in the Political notebook.
- Write questions along with the answers.
- All questions are to be answered in 30 to 40 words.

Q1. What do you understand by 'Public Interest Litigation'?
Q2. Differentiate between political and permanent executive.
Q3. Why do we need a Parliament?
Q4. How is the President of India elected? What are the powers of the President?
Q5. List the powers of the Prime Minister.

## Subject:Information Technology

## General Instructions:

- The work should be done neatly and in a systematic way.
- The given questions are to be done in the computer notebook.
- Write questions along with the answers.

Q1. Expand the following terms:-
a. CNG
b. 3R

Q2. Application based question:-
a. Renu lives in a society where the residents are facing an acute water crisis. Suggest some ways to the residents to conserve water.
b. Swati uses wood and cow dung cakes as fuel in her kitchen. She is not aware that these fuels pollute the environment. Suggest some alternative eco-friendly fuels to her to avoid air pollution.

## Q3. Answer the following questions:-

a. What are the five basic factors required for the survival of a living organism?
b. Differentiate between abiotic and biotic components with the help of an example.

Q4. Click on the link given below to answer the multiple choice questions:https://forms.office.com/r/8XXKfDUFpd

## Q5. General Instructions for Lab activity:

- Take the screenshots for all the practicals mentioned below and paste in a word document.
- Share the pdf of the practical on the Assignment tab of MS-Teams.


## Lab Activity:-

1)Perform the following practical using the LibreOffice Impress.
i) Make five slides on 'Environment Protection and Conservation' based on the points mentioned below:-
a. What is an environment?
b. Types of natural environment
c. Any three ecological imbalances
ii) Five different views of the slides in a presentation

