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

## Subject: English

## Worksheet 1

1. The following passage has not been edited. There is one error in each line. Identify the incorrect word and write the error and correction in the space provided.

## Incorrect Correct

A.P.J. Abdul Kalam serve as president of the Republic of India in 2002 to 2007.
a) $\qquad$
$\qquad$
b) $\qquad$
$\qquad$
He was the $11^{\text {th }}$ President of a country.
c) $\qquad$
$\qquad$
For president, Kalam promoted the
d) $\qquad$
$\qquad$ advancing of the national nuclear weapons programme. Kalam also devise a 20-year action
e) $\qquad$
$\qquad$ plan to achieve economic growth from
f) $\qquad$
$\qquad$
g) $\qquad$
$\qquad$ technological development on India.
h) $\qquad$
$\qquad$
2. Rearrange the following words/ phrases to form meaningful sentences.
a) was/ accomplished/ Marie Curie/scientists/in/ one of the/ most/ history
b) was/ in/ Marie/ Warsaw, Poland/ 1867/ born/ in
c) $\mathrm{a} / \mathrm{and} / \mathrm{mind} /$ early age/bright /from /she /had/ curious/an
d) $1911 / \mathrm{in} /$ she/ received/ isolating radium/ Nobel Prize/ the/ in/ Chemistry/ for
e) World War I,/ helping/the /devoted herself/ Curie/ during/ to/ soldiers/the
a) $\qquad$
b)
$\qquad$
d) $\qquad$
e) $\qquad$

## 3. Your friend has recently taken admission in Bhartendu Academy of Dramatic Arts, <br> Uttar Pradesh. Frame a set of five questions asking him about the academy.

## a. location of the academy

$\qquad$
b. monthly fee
$\qquad$

## c. number of students in a batch

## d. timings

$\qquad$
e. hostel facility
$\qquad$

## 4. Complete the following passage with appropriate words:

Aryabhata was India's first satellite, named a) $\qquad$ the 5th century astronomer and mathematician from India. It was launched b) $\qquad$ 19 April 1975 from Kapustin Yar, a Russian rocket launch and development site at Astrakhan Oblast using a Kosmos-3M launch vehicle. It was built c) $\qquad$ the Indian Space Research Organisation. Aryabhata weighed 360 kilograms, and was instrumented d) $\qquad$ explore conditions
e) $\qquad$ Earth's ionosphere, measure neutrons and gamma rays from the Sun, and perform investigations in X ray astronomy. The scientific instruments had to be switched off during the fifth day in orbit because f) $\qquad$ a failure in the satellite's electrical power system.
5. Read the dialogues between two friends and complete the sentences.

Ajay: Did you visit the National Science Museum yesterday?
Amit: No, I was completing my assignment.
Ajay: I will be going to the museum with my father tomorrow. Would you like to accompany me?
Amit: Yes sure, I will come along with you.
Ajay asked Amit a) $\qquad$ Ajay refused and replied that b)
$\qquad$ . Ajay further told him that c)
$\qquad$ . He asked Amit whether he would like to accompany him.

Amit readily agreed to go along with him.

## Worksheet 2

1. The following passage has not been edited. Identify the incorrect word and write the error and correction in the space provided.
$(1 / 2 \times 8=4)$

|  | Incorrect | Correct |
| :---: | :---: | :---: |
| Good health or fitness is not something | a) |  |
| that one can achieved entirely on his | b) |  |
| own. It depends on a physical environment |  |  |
| and the quality and food intake. Our | d) |  |
| day-to-day habit also determine our fitness |  |  |
| levels. The quality in food, air and water |  |  |
| help in building our immunity. Overeat |  |  |
| is not good on the body |  |  |

## 2. Rearrange the following words/ phrases to form meaningful sentences.

a) is a /style /Mithila /of the/Indian painting,/ in/ Madhubani art/ region/ practiced
b) done /painting/ including/ this/brushes, /with/ a variety of tools,/ is /twigs and pencils
c) geometrical/ is/ by its/ patterns/ eye-catching/ characterised/ it
d) are/ paintings/ powdered/ $\mathrm{a} / \mathrm{made} /$ from/ paste/ of/ Madhubani/ rice
e) paintings/ depict/ and /mostly/ people/ these/ their/ with/ association/ nature
a)
b)
c)
d)
e)

Q3. You are planning to visit Singapore during your vacations. Based on the hints given below, frame five questions which you would like to ask one of your friends living in Singapore. (1x5=5)
a) best month to visit
b) languages spoken in Singapore
c) famous delicacies
d) best hotels
e) modes of local transport in Singapore

The town of Sanchi a) $\qquad$ (be) synonymous with Buddhist Stupas - hemispherical structures typically b) $\qquad$ (contain) relics of Buddha and his followers. The Stupas of Sanchi c)
$\qquad$ (construct) on the orders of Emperor Ashoka to preserve and d) $\qquad$ (spread) the Buddhist philosophy. Sanchi e) $\qquad$ (protect) these beautiful and sacred architectural wonders, just the way these wonders f) $\qquad$ (safeguard) ancient history and art of the Mauryan period.

Q5. Complete the following dialogues between two friends:
Sam: $\qquad$ ?

John: I am going to the gymnasium.
Sam: $\qquad$ ?

John: I exercise with the help of training equipment there.

Sam: $\qquad$ ?

John: Yes, of course. You can accompany me to the gym.

## Worksheet 3

Q1. The following passage has not been edited. Identify the incorrect word and write the error and correction in the space provided.
( $1 / 2 \times 8=4$ )

Incorrect Correct
a) $\qquad$
b) $\qquad$
c) $\qquad$
d) $\qquad$
e) $\qquad$
f) $\qquad$
g) $\qquad$
h) $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

It's a way to calm but relax after the daily struggle of life. Moreover, there are many kind of music, and everyone has a different taste of music. Some peoples like soft or slow music while others find loud and fast music more entertained.

Music had acted as an inspiration for many famous philosophers and artists. For many cultures, music is a important part of the people's way of life.

Q2. Rearrange the following words/ phrases to form meaningful sentences.
a) Buddha Jayanti/ Vaisakha Poornima/ on/ is/ celebrated
b) commemorates/ the/ his/ Buddha's/ birth/ enlightenment/ as well as/ it
c) marks /Dharma /Buddha's /the/ beginning /of the/ teachings
d) nuns/ for /Buddhists,/ some/ Sangha/ refers /to/ monks/ and/ only
e) of the /celebration /Sangha Day/is a/in/ Buddhist community/ honour/ Sangha,/ or the
a)
b)
c)
d) $\qquad$
e)

Q3. You are going to meet your favourite classical singer Kaushiki Chakraborty at a cultural fest. Frame a set of five questions you would like to ask her based on the following hints: (1x5=5)
a) place of training
b) inspiration
c) first concert
d) hours of practice each day
e) future plans
a)

b)
$\qquad$
d)
e)

## Q4. Fill in the blanks with suitable words.

There was a fire in the neighbouring building. The firemen managed to prevent the fire (a) $\qquad$ turning
(b) $\qquad$ a major disaster c) $\qquad$ a few minutes. They succeeded (d) $\qquad$ putting it
(e) $\qquad$ in an hour. They successfully brought (f) $\qquad$ the people trapped under the debris.

## Q5. Complete the following passage with appropriate words:

Every year Kolkata a) $\qquad$ (organize) the Handicrafts Fair, but this time it was extraordinary. I b) $\qquad$ _(amaze) to see the workmanship of the artisans of West Bengal. I c) $\qquad$ (witness) the artisans d) $\qquad$ (make) bamboo totem poles. Not only were there various handicraft products but also artisans who e) $\qquad$ (come) to display their talent. It f) $\qquad$ (be) a perfect combination of simplicity and glamour.

## Worksheet 4

Q1. The following passage has not been edited. Identify the incorrect word and write the error and correction in the space provided.
$(1 / 2 \times 8=4)$

|  | Incorrect | Correct |
| :---: | :---: | :---: |
| Solar energy influenced the Earth's climate | a) |  |
| but sustains life. Although solar energy | b) |  |
| only provides $0.15 \%$ off the world's power, |  |  |
| experts believe that sunlight had the |  |  |
| potential to supply 5000 time as | e) |  |
| much energy as a world currently |  |  |
| consume. Broadly speaking, solar energy | g) |  |
| was a term used to describe a range of methods of obtaining energy from the sun. | h) |  |
| Q2. Rearrange the following words/ phrases to f | aningful sente |  |

a) iconic/ mountain/ Mount Everest/ is the/ planet/ tallest/ the/ on the
b) borders/ Mount Everest/ both/ the/ is/ on /of / located/ China and Nepal
c) successful/ have been/ over 4,000 / there/ on/ climbers/ Mount Everest
d) 800/ approximately/ people/ annually/ to/ climb/ Everest/ attempt
e) the/ months and years/of / it/ and/ training/ to/ climb/ preparation/ requires/ Everest
a)
b)
c)
d)
e)

Q3. You are planning to visit an NGO working for the upliftment of abandoned children. Frame a set of five questions you would like to ask the president of the NGO.
a) establishment of the NGO
b) number of children registered
c) education to children
d) support from the government
e) number of volunteers
a)
b)

d) $\qquad$
e) $\qquad$

## Q4. Fill in the blanks with suitable words.

Chocolate is perhaps the world's most favourite food. The word chocolate is derived a) $\qquad$ the Mayan word 'Chocol' which means a hot drink. Chocolate is made from the fruit b) $\qquad$ the cacao trees called pods and each pod contains around 40 cacao beans. The seeds from the pods are carefully removed and left exposed c) $\qquad$ light to let them ferment d) $\qquad$ around nine days or less. Once that is done, they are dried for a week or two e) $\qquad$ the hot sun, then roasted and blended to make cocoa powder. Ruth Wakefield created the first chocolate chip cookie f) $\qquad$ 1930.

Q5. Read the following conversation and complete the sentences in reported speech. (1x 3=3)
Vikas: When did you arrive from Scotland?
Arun: I arrived at the Indira Gandhi International Airport at 4 a.m. yesterday.

Vikas: How long are you planning to stay in India?
Arun: I am planning to stay for a month in India.
Vikas asked Arun a) $\qquad$ from Scotland. Arun replied that b)
$\qquad$ . Vikas wanted to know c) $\qquad$ to stay in India. Arun replied that he was planning to stay for a month in India.

## Experiential Learning

1. "Margie was thinking about the old schools they had when her grandfather's grandfather was a little boy. All the kids from the whole neighbourhood came, laughing and shouting in the schoolyard, sitting together in the schoolroom, going home together at the end of the day".

You have already read about the old schools in the lesson 'The Fun They Had'. What kind of schools would you envisage in 2070? Find out how futuristic schools would be different from present schools. You may use
following points for comparison:

- facilities
- use of technology
- medium of studying
- other relevant points

Make a power point presentation including information and pictures and mail it to your English teacher.
2. "We were not well-to-do, and could not afford the frequent loss of dishes, clothes, curtains and wallpaper. So Grandfather found the tonga-driver, and sold Toto back to him-for only three rupees".

You had recently read the lesson 'The Adventures of Toto' by Ruskin Bond. Do you think the tonga -driver would have sold Toto to someone else or Toto would have remained with him for the rest of his life?

Using ideas from the lesson, write a story on what happens to Toto next. Go to www.storyjumper.com and use different images, scenes, characters etc. to make your story interesting. Share the link with your English teacher after completing your story.

3. "Somewhere ages and ages hence;

Two roads diverged in a wood, and I-

I took the one less travelled by,

And that has made all the difference".

Based on the poem 'The Road Not Taken' by Robert Frost find out information about any two famous personalities who had chosen the road less travelled by and achieved success in their lives. Fill the information sheet based on your research. Write the information in your English notebook.

## INFORMATION SHEET

Name:
Education Qualification:
Profession:
Family Members:

Decision that Changed His/Her Life:

Inspiration Drawn/Lessons Learnt:
4. "In the past, the shehnai was a part of the naubat or traditional ensemble of nine instruments found at royal courts. Till recently it was used only in temples and weddings. The credit for bringing this instrument onto the classical stage goes to Ustad Bismillah Khan".

You have read about Ustad Bismillah Khan and his passion for music in the lesson 'Sound of Music-Part II. Design a colourful poster with a message to promote Indian classical music and paste it in your English notebook.


## Subject: Hindi

सामान्य निर्देश :
1 सभी प्रश्नों के उत्तर अपनी उत्तर-पुस्तिक्रा में लिखिय।
2 कार्य स्वच्छ , थुद्ध पवं स्पष्ट लेख में कीजिष्ट ।
3 गतिविधियों के रूप में दिर परियोजना क्रार्य के अंतर्गत ऑडियो या वीडियो स्पष्ट होना चाह्वि। इस कार्य के दौनान स्सामाजिक दूरस्थता एवं स्ववच्छता का विशेष ध्यान रखें।

## Worksheet-1

## गतिविधि -1

अपने परिवार के सदस्स्यों के लिए मास्क्र बनाते हुप्ट एक विडियो रिक्राडिग कीजिए।
प्रश्न 1 अपठित गद्यांश को पढ़क्रर निम्न प्रश्नों के उत्तर दीजिए -
(क) आज हर आदमी एक उलझान अरी ज़िंदगी जी रहा है। वह अपनी ज़िदगी को अधिक सुंदर अधिक सुरक्षित एवं अधिक संपन्न बनाने के लिए एक दिन में न जाने कितनी बार मरता है।मानव मन की अभिलाषाएँ अनंत है। एक अभिलाषा पूर्ण होते ही दूसरी अभिलाषा फ़न उठाने लगती है। एक व्यक्ति पैदल चला करता था।उसके मन में एक दिन अभिलाषा जागी कि उसके पाास् एक स्राईकिल होनी चाहिए ताकि उसे पैदल चलने में व्यर्थ का परिश्रिम न करना पड़े।उसकी यह अभिलाषा पूरी हो गई।कुछ दिन बाद और अधिक आराम पाने के लिए उसके मन में मोटरसाइकिल की अभिलाषा जागृत हुई।उसने अपने आपको समझाया मोटरसाइकिल ले लेने से समय की बचत होगी और समाज में थोड़ा रूतबा भी बढ़ जाएगा।इस अभिलाषा के पूर्ण होते ही मन में एक नई अभिलाषा फिर से जागृत हो उठी। अगर एक कार आ जाए तो कितना अच्छा हो।तब बिना किसी परेशानी के सपरिवार कही भी आना जाना हो सकेगा।यह अभिलाषा भी पूरी हो गयी मगर कैसे, यह वही जानता है।इनमें से एक भी अभिलाषा की पूर्वि उसकी क्षमताओं से बाहर की बात थी।इनकी पूर्ति के लिए उसने न जाने कितनी बार उसने अपने मन के दूसने सुखों का गला घोंटा होगा। हो सकता है कुछ बुरे कार्य भी किए हों।यदि हाँ,तो क्या उसके मन ाका निश्छल कोना अपराधबोध की भावना से कभी मुक्त हो पाएगा ? भौतिक अभिलाषाएँ इस जीवन में कभी तृप्त नही हो सकर्ती। न ही वे कभी व्यक्ति के अंत॰करण को सच्ची खुशियाँ दे सकती है। फिर क्यों इन क्रामक खुशियों के लिए मरा जाए?
(क) 'आज का मानव एक उलझान मरी ज़िंदगी जी रहा है।'कथन के द्वारा लेखक क्या कहना
चाहते है ?
(ख) भौतिक अभिलाषाओं के विषय में क्या कहा गया है ?
(ग) वर्तमान में व्यक्ति की महत्व्वाकांक्षाओं के परिणाम किस रूप मे सामने आ रहे है?
(घ) सुरक्षित शब्द में से मूल शब्द, उपसर्ग व प्रत्यय अलग अलग कीजिए।
(ड़) 'जागृत' शब्द का वर्ण - विच्छेद कीजिए ।
(च) उपर्युक्त गद्यांश के लिए उचित शीर्षक लिखिए।
(ख) उन दिनों द्वितीय विश्व युद्ध चल रहा था।जर्मन सेना पोलैड़ पर हमला कर चुकी थी। सेना के एक अधिकारी पोर्लैड़ के एक सुदूर गाँव में बने अपने शिविर्ट से कुछ सैनिकों के साथ घोड़ों के लिए चारा इकदठा करने निकले। अधिकारी ने गाँव के एक बच्चे को पकड़कर कहा "चलकर बताओ कि यहाँ किस्स खेत में सबसे अच्छी फ़सल है।"बच्चा उनके साथ चल पड़ा।चारों और खेत लहलहा रहे थे। सभी की फ़सल बहुत शानदार दिखाई दे रही थी। सैनिक चाहते थे कि उन खेतों में से ही किसी एक फ्सल को काट लें किंतु बच्चा बार बार कहता था "कुछ और आगे चलिए बहुत अच्छी फ़सल आप लोगों को दिखाऊँगा।"सैनिकों को पोलैंड़ की सेना के जाल में फेँस जाने की आशांका मी सता रही थी। किंतु वे चलते रहे। धीरे धीरे वह बच्चा चैनिकों को लगभग गाँव की सीमा पर चिथित खेतों पर ले गया । वहाँ उसने एक खेत दिखाया। हैनिकों ने उस खेत से फ़्सल काटकर गट्ठर बाँधे और घोड़ों पर रख लिए। चैनिक अधिकारी बड़ी ही नाराज़गी से बच्चे से बोले "वू हृंें बेकार इतनी दूर ले आया।ऐसी फ़्सल तो पास्स के खेतों में भी थी।"बच्चे ने कहा "我 जानता हूँ कि आप लोग खेत के स्वामी को फ़सल का मूल्य तो देने वाले है नर्ही। तो फिर किसी दूसरे किस्तान का नुकसान कैस्से कराता।यह मेरा अपना खेत है और मेरे लिए तो इसी खेत की फ़सल सबरे अच्छी है।"यह सुनकर उस अधिकारी ने लज्जित होकर उस बच्चे को फ़सल के मूल्य के साथ साथ पुरसकार देकर भी सम्मानित किया ।
(क) उपर्युक्त गद्यांश में लेखक ने किस समय की घटना का वर्णन किया है? सेना के एक अधिकारी शिविर से बाहर किसलिए निकले ?
(ख) चैनिकों को क्या आशंका सता रही थी ? फिर भी वे आगे क्यों चलते रहे?
(ग) सेना का अधिकारी लज्जित क्यों हुआ और उसने बच्चे के साथ कैसा व्यवहार किया?
(घ) बच्चा सैनिकों को गाँव की सीमा पर स्थित खेतों में क्यों ले गया ?
(ड़) स्वामी' और 'युद्ध' के विलोम शब्द लिखिए ।
(च) गद्यांश का उचित शीर्षक लिखिए ।

## WorkSheet-2

गतिविधि - कीरोना स्संक्रट के दौरान लोगों की स़तायता के लिए क्रार्यरत डॉक्टर ,नर्स्स ,सफाई कर्मचारी तथा पुलिस्स कर्मचारियों का स्सम्मान षंं उनक्रा स्सहयोग करने के लिए देशचास्सियों के नाम स्संदेश देते

## तुष्ट वीडियो बनाइए।

प्रश्न 1 पद की परिभाषा बताते हुए शब्द एवं पद में अंतर उदाहरण सहित स्पष्ट कीजिए प्रश्न 2 'रमा गाती है।' इस वाक्य में रमा शब्द है या पद?
प्रश्न 3 राम, कमल शब्द है या पद कारण सहित रुपष्ट कीजिए।
प्रश्न 4 निम्नलिखित शब्दों का वर्ण संयोग कीजिए।
(1) स्स+म् +म्+आ+न्+अ



(5) सू + अं+क्क + अ + ल् + प् + अ
(6) म्+इ+त्+ + +अ+त् + आ
(7) न्+अ+म्+अ+स्स्+त्+ए
(8) घ्+ओ +ष् + इ+ त्+ अ

प्रश्न 5 निम्नलिखित थब्दों का वर्ण विच्छेद कीजिए।
(1) महोदय
(2) đैज्ञानिक
(3) सूष्टि
(4) संसार
(5) अभिप्राय
(6) उपर्युक्त
(7) प्रयुक्त
(8) स्वस्थ

प्रश्न 6 उचित संथान पर उपयुक्त अनुस्तार्ट षवं अनुनास्सिक का प्रयोग कीजिए।
(1) वश
(2) चदन
(3) अश
(4) सग
(5) सध्या
(6) अलकार
(7) अक
(8) सपूर्ण

प्रश्न 7 उचित स्थान पर उपयुक्त अनुस्तार्ट घं अनुनास्सिक का प्रयोग कीजिए।
(1) दात
(2) बाध
(3) गवार
(4) आख
(5) चाद
(6) लड़किया
(7) कुआ
(8) चारपाइया

## WorkSheet-3

गतिविधि - रहीम के दोर्ढों का भावपूर्ण वाचन करते हुष्ट ऑंडयो बनाइए। (किन्ही चार दोहों का) प्रश्न - निम्नलिखित प्रश्नों के उत्तर दीजिए -

1 आप आज की पर्चिस्थितियों में अमीर-गरीब का मेद भुलाकर किसी जरूटतमंद की मदद करते हुए बताइए कि इससे आपने क्या सीखा ?
(2x1=2)
2 स्वच्छ ,व्यवस्थित एवं समयानुकूल परिधान पहननने पर आप कैसा महस्सूस करते है? बताते हुए स्पष्ट कीजिए कि मनुष्य के जीवन में पोशाक का क्या महतन्व्व है ?
( $2 \times 1=2$ )
3 कठिन परिस्थितियों में मित्र की सहायता करते हुए अपने अनुभव के आधार पर बताइए कि 'एवरेट्ट मेरी शिखर यात्रा' में लेखिका ने अपने मित्रों की मदद क्यों की?
(2x1=2)

4 आपके जीवन का लक्ष्य क्या है? इस लक्ष्य की प्राप्ति में आप किन कठिनाइयों का सामना कर रहे है ?लिखिए।

5 कवि रैदास्स के पहले पद में भगवान और भक्त की जिन -जिन चीज़ो से तुलना की गई है उनका उल्लेख करते हुए अनुभव के आधार पर बताइए कि जीवन में श्रृद्धा, विश्वारत, लगन एवं एकाग्रता से काम करने का क्या महदव्व है ?
(2x1=2)
6 रैदास जी कहते है कि ईश्वर अपने अक्तों की मदद करते हैं, आपने विकट परिस्थितियों में कभी ईश्वर की मदद का अनुभव किया है?बताइए
7 जलहीन कमल की रक्षा सूर्य भी क्यों नही कर पाता है ? जीवन की किसी घटना उल्लेख करते
8 हुए बताइए कि व्यक्तिमत योग्यता एवं परिश्रिम से ही चुनौतिपूर्ण स्थितियों का सामना किया जा सकता है?
9 मन की बात मन में ही रुखने की सलाह रहीम जी क्यों देते है ? आपके जीवन में वे कौन से लोग है जिनपर आप विश्थानस करते हैं, अपने दुख दर्द बॉटते है तथा क्यों?
10 लेखिका का ध्यान आकर्षित करने के लिए गिल्लू क्या करता था ? आप अगर किसी जीव को पालेंगे तो उसकी देखभाल कैसे करेंगे?
( $2 \times 1=2$ )
11 अगर हम किसी की सेवा करते है तो हमें आव्मसंतोष की प्राप्ति होती है। अपने अनुभव के आधार पर बताइए।
(2x1=2)

## WorkSheet - 4

गतिविधि 'श्रमिक्र सुरक्षा' पर एक सुन्दर सा नारा लिखक्र और उस्से बोलते हुष्ट वीडियो बनाइए।
प्रश्न 1 'मेरी प्रिय पुस्तक्क ' पर दिए गए संकेत बिंदुओं के आधार पर अनुच्छेद लिखिए।
-
संकेत बिदे ः प्रिय पुर्तक का पच्चिय , ज्ञानवर्धन का साधन , अच्छी पुस्तकों की आवश्यकता , सभी वर्गो के लिए उपयोगी ।
प्रश्न 2 लॉक्रडाउन के दौरान समय के सदुपयोग का मह्रद्व्व बताते हुप्ट अपने मित्र को 80 से 100 शब्दों में पत्र लिखिए।
( $4 \times 1=4$ )
प्रश्न 3 'ऑनलाइन कक्षाओं के विषय में दो मित्रों के मध्य हुप्ट वार्तालाप को संवाद के रूप में लगभग 50 थब्दों में लिखिए।
( $4 \times 1=4$ )
प्रश्न 4 अपने मित्र को ‘जन्मदिवस्स की थुभक्रामनाच्ये' देते हुष्ट 30 से 40 शब्दों में संदेश लिखिए।
( $4 \times 1=4$ )
प्रश्न 5 'ऊर्जा बचाव' पर एक्र सुन्दर सा नारा लिखिए।
( $4 \times 1=4$ )

## Subject: Mathematics

## Worksheet 1

Note: For questions numbered $\mathbf{1 - 5}$, choose the correct option:
Q. 1 ) Which of the following equations represents a line parallel to x -axis?
(a) $2 x+3=5$
(b) $2 \mathrm{y}-3=\mathrm{y}+1$
(c) $2 x+y=1$
(d) $x+4=0$
Q.2) The value of $\sqrt{12} \times \sqrt{18}$ is:
(a) $6 \sqrt{6}$
(b) $6 \sqrt{3}$
(c) $6 \sqrt{2}$
(d) $4 \sqrt{6}$
Q. 3 ) On simplifying $27^{-1 / 3}\left\{(27)^{1 / 3}-(27)^{2 / 3}\right\}$, we get:
(a) 1
(b) -1
(c) 2
(d) -2
Q.4 ) The distance of point ( 3,5 ) from $x$-axis is:
(a) 3 units
(b) 5 units
(c) 8 units
(d) 2 units
Q. 5) The value of $y$-coordinates of a IIIrd quadrant is:
(a) positive
(b) zero
(c) negative
(d) not determined
Q.6) Factorise: $729 x^{3}-512 y^{3}$.
Q. 7 ) Check which of the following is the solution/s of the linear equation $3 x+4 y=6:$
(a) $(3,2)$
(b) $(-3,2)$
(c) $(2,0)$
(d) $(-1 / 2,-1 / 3)$
Q. 8 ) Prove the identity: $(x+y+z)^{2}=x^{2}+y^{2}+z^{2}+2 x y+2 y z+2 x z$ experimentally.
Q.9 ) Expand the following expressions using a suitable identity:
(a) $[-x+2 y-5 z]^{2}$
(b) $[2 \sqrt{3} x+\sqrt{3} y-\sqrt{8} z]^{2}$
Q.10) Simplify the following expressions:
(a) $(\sqrt{3}-\sqrt{5})^{2}$
(b) $(2 \sqrt{2}+5 \sqrt{3})-(\sqrt{2}-3 \sqrt{3})$
Q.11) Consider any quadratic polynomial and divide it by any linear polynomial such that the remainder is zero.
Q.12) If $\frac{\sqrt{3}-1}{\sqrt{3}+1}=a+b \sqrt{3}$, find the values of $a$ and $b$.
Q.13) Give the equation of any four lines passing through ( $-4,5$ ). How many such lines are possible? Justify your answer.
Q.14) Find any four irrational numbers between $3 / 7$ and $4 / 7$.
Q.15) Evaluate the following using suitable identities:
(a) $1005 \times 1006$
(b) $(104)^{3}$
Q.16) When school will reopen after summer vacations, you will be following the rule of social distancing.

Suppose you are made to stand in a row at a distance of 1 m . If one student is extra in a row, there would be two rows less. If one student is less in a row,there would be 3 rows more. Find the number of students. (Using the concept of linear equation in two variables.)

## Worksheet 2

Note: For questions numbered 1-5, choose the correct option
Q.1) $\left(\mathrm{a}^{\mathrm{x}-\mathrm{y}}\right)\left(\mathrm{a}^{\mathrm{y}-\mathrm{z}}\right)\left(\mathrm{a}^{\mathrm{z}-\mathrm{x}}\right)$ is equal to :
(a) 1
(b) a
(c) 0
(d) none of these
Q. 2 ) The value of $(9)^{3}+(-3)^{3}+(-6)^{3}$ is:
(a) -81
(b) 54
(c) 162
(d) 486
Q. 3 ) If $(2 x+5)$ is a factor of $2 x^{2}-k$, then the value of $k$ is :
(a) 2
(b) -1
(c) 25
(d) $25 / 2$
Q.4 ) The equation $2 x-3 y=x-1$ has :
(a) two solutions
(b) unique solution
(c) infinitely many solutions
(d) no solution
Q. 5 ) Ordinate of all points on the x -axis is:
(a) 0
(b) 1
(c) -1
(d) any number
Q. 6 ) A pharmaceutical company decides to manufacture face masks under the given condition: If the shopkeeper buys 100 masks, the cost of each mask is Rs. 50 and if he/she buys more than 100 , then cost of one mask would be reduced by Rs. 15. Express this situation in terms of a linear equation in two variables and draw the graph for the same.
Q. 7 ) Write three examples of rational numbers in the form $\mathrm{p} / \mathrm{q}(\mathrm{q} \neq 0, \mathrm{p} \& \mathrm{q}$ are integers), having terminating decimal expansions. write the prime factorisation of q ? Now guess what property q must satisfy?
Q.8) If $x=\frac{\sqrt{5}-\sqrt{2}}{\sqrt{5}+\sqrt{2}} \& y==\frac{\sqrt{5}+\sqrt{2}}{\sqrt{5}-\sqrt{2}}$, find the value of $x^{2}+x y+y^{2}$.
Q.9) Simplify the following using laws of exponents:
a) $(216)^{-2 / 3} \times 6^{2}$
b) $8^{2 / 3} \times\left(\frac{1}{144}\right)^{-1 / 2}$
Q.10) Construct $\sqrt{10}$ on the number line. Write the steps of construction.
Q.11) Find $p(-1), p(2)$ and $p(-2)$ for the polynomial $p(y)=y^{3}-2 y^{2}+3 y-1$.
Q.12) Write any quadratic polynomial and divide it by any linear polynomial. Find the remainder.

Verify your answer by finding the remainder using remainder theorem.
Q.13) Find the value of $x$ if $5^{x-3} \cdot 3^{2 x-8}=225$.
Q.14) Rationalise the denominator of the following :
(i) $\frac{30}{5 \sqrt{3}-3 \sqrt{5}}$
(ii) $\frac{4}{\sqrt{7}-\sqrt{3}}$
Q.15) Prove that: $x^{3}+y^{3}=(x+y)\left(x^{2}-x y+y^{2}\right)$.

Q16) The government of India has made arrangements to send workers to their home town by special trains.The path of the train $A$ is given by $3 x+4 y-12=0$ and the path of $\operatorname{train} B$ is given by $6 x+8 y-$ $48=0$. Represent this situation graphically.

## Worksheet 3

## Note: For questions numbered 1-4, choose the correct option:

Q. 1 ) Which of the following is an irrational number?
(a) $\sqrt{81}$
(b) $4 / 5$
(c) $\sqrt{7}$
(d) $\frac{\sqrt{4}}{\sqrt{9}}$
Q. 2 ) The value of $\frac{5}{8}$ in decimal form is:
(a) 0.875
(b) 0.925
(c) 0.625
(d) 0.375
Q.3 ) If $\left(\frac{3}{4}\right)^{x}\left(\frac{4}{3}\right)^{2 x}=\frac{256}{81}$ then the value of $x$ is :
(a) 1
(b) 0
(c) 5
(d) 4
Q. 4 ) If $x=-3$ and $y=-3 / 4$ is the solution of $4 x=k-3 y$, the value of $k$ is :
(a) 1
(b) 3
(c) -4
(d) 0
Q. 5 ) Three students were made to stand on the points P,Q\&S with coordinates $(1,1),(6,1)$ and ( 1,6 ) respectively in a playground to play a game. Find the coordinates of the fourth point R so that PQRS forms a square.
Q. 6) If $\mathrm{p}(\mathrm{x})=\mathrm{x}^{2}-4 \mathrm{x}+3$, evaluate $\mathrm{p}(2)-\mathrm{p}(-1)+\mathrm{p}\left(\frac{1}{2}\right)$
Q.7) A student of class IX was asked to write coordinates of any four points so that:
(a) they are collinear.
(b) they form a rectangle.

Suggest any two possibilities for each case.
Q. 8 ) Give an example to support the given statements:
(a) The sum of two irrational numbers is irrational
(b) The difference of two irrational numbers is irrational
Q. 9 ) The polynomial $\mathrm{p}(\mathrm{x})=\mathrm{kx}^{3}+9 \mathrm{x}^{2}+4 \mathrm{x}-8$ when divided by $(\mathrm{x}+3)$ leaves a remainder $10(1-\mathrm{k})$. Find the value of k .
Q.10) If $3 x+y+z=0$ then show that $27 x^{3}+y^{3}+z^{3}=9 x y z$
Q.11) Draw the graph of $x+3 y=15$. Find the coordinates of the point where the line meets $x$-axis.
Q.12) Write an example of : (a) a binomial of degree 101
(b) a cubic polynomial of degree 35 .
Q.13) Ram's house is in the middle of the town. He moves 12 houses due east and then 20 houses due North. From there, he moves15 houses due West. Which direction is he facing now with respect to his house.
Q.14) Factorise the following cubic polynomials :
a) $x^{3}-4 x^{2}+x+6$
(b) $x^{3}+x^{2}-4 x-4$
Q.15) If $x^{2}+\left(1 / x^{2}\right)=38$, find the value of $\left(x^{3}-1 / x^{3}\right)$.
Q.16) A city has two main roads which cross each other at the centre of the city. These two roads are along the North-South direction and East - West direction. All other streets of the city run parallel to these roads and are 200 m apart. There are about 5 streets in each direction. Using $1 \mathrm{~cm}=200 \mathrm{~m}$, draw a model of city in your note book. Represent the roads/streets by single lines. If an ambulance at point $(1,1)$ has to carry a patient to point $(3,4)$. What will be the shortest distance covered by the ambulance?

## Worksheet - 4

## Note: For questions numbered 1-5, choose the correct option:

Q-1 Which of the following rational number lies between 2 and 3 ?
(a) $4 / 7$
(b) $10 / 3$
(c) $7 / 8$
(d) $17 / 8$

Q-2 Which of the following is an irrational number?
(a) 0.101001000 ..
(b) 1.3
(c) $2.313131 \ldots$.
(d) 4.765

Q-3 One of the zero of the polynomial $(x+1)(x-2)$ is :
(a) 4
(b) 1
(c) -1
(d) 1

Q-4 Point A $(-5,0)$ lies on/in :
(a) First quadrant
(b) second quadrant
(c) negative x -axis
(d) negative $y$-axis.

Q-5 For what value of $k$, the point $(3,4)$ lies on the graph of equation $3 y=k x+7$
(a) $3 / 7$
(b) $5 / 3$
(c) -4
(d) -3

Q-6 Note down the ages of all your family members. Divide each of the age by the month of their birth. Observe decimal expansions obtained and say whether it is terminating or non-terminating repeating.
Q-7 Notice a few objects in your house like television, wall clock or table lamp etc. Using the concept of coordinate geometry, describe the position of at least 5 such objects and then plot them in the Cartesian plane.
Q-8 Suppose two of your relatives contributed Rs. 5000 together in Prime Minister's Relief Fund for Covid-19. Represent this situation as linear equation in two variables and draw graph for the same.

Q-9 Observe some situations in and around your house describing any of 5 Euclid's axioms.

Q-10 Think of first 17 natural numbers. Make a square root spiral of these numbers using a white sheet and colour pencils.

Q- 11 Watch an English News Channel daily for atleast 15 minutes. Note down the temperature (in ${ }^{0} \mathrm{C}$ ) of Delhi for a week. Convert these temperatures in degree Fahrenheit.
Q-12 Draw a plan of seating of your classroom. Represent each desk by a square. Write down the name of the student occupying the desk, which the square represents. Describe yours and your friend's position by shading the squares. Also write down the coordinates of these positions.
Q-13 Divide $3 x^{2}+x-1$ by $x+1$ and verify the division fact.
Q-14 Simplify: (i) $(3+\sqrt{7})(3-\sqrt{7})$
(ii) $(\sqrt{ } 13-\sqrt{ } 5)^{2}$

Q-15 Without actually calculating the cubes, find the value of :
(a) $(25)^{3}+(-13)^{3}+(-12)^{3}$.
(b) $(96)^{3}$

Also mention the identity used.
Q16.) Verify the algebraic identity; $(x+a)(y+b)=x y+a y+b x+a b$ experimentally using the graph paper.

## Subject: Science

## Objectives:

- To ensure revision of concepts
- To enhance skills to carry out research work and develop scientific aptitude
- To encourage learning through experience
*Attempt the questions keeping in mind the weightage of each question.
(1) Answer the 1 mark questions in 5-10 words.
(2) Answer the 2 marks questions in 10-20 words.
(3) Answer the 3 marks questions in 20-30 words.
* Attempt your worksheets in the science notebook, scan the notebook and mail the pdf to the respective teachers.
* Document and mail the activities according to the specific instructions given with them.


## Worksheet-1

## Activity:

1. Download the app 'frequency generator' from play store.
2. Open the option for superimposing one wave on another.
3. Prepare a symphony of 15 seconds, record, rename and mail the audio file to the respective teacher.
4. Listen to different frequencies of sound in the app and fill the table to check the sensitivity of your ears.

| S. No. | Frequency | Audible/ Inaudible |
| :---: | :--- | :---: |
| 1 | 6 Hz |  |
| 2 | 20 Hz |  |
| 3 | 30 Hz |  |

5. Repeat step 4 with family members of different age groups. Does the sensitivity of ears change with age?

## Assignment 1

## Physics

Q1.What is the range of frequencies associated with (i) infrasonic sound (ii) ultrasonic sound?
Q2. You are standing at a distance of 55 m from a building. The speed of sound in air is $330 \mathrm{~m} / \mathrm{s}$, find the time for your echo to be heard.
Q3. While going from home to school, your car travelled at $54 \mathrm{~km} / \mathrm{h}$ for first $20 \mathrm{~s}, 36 \mathrm{~km} / \mathrm{h}$ for next 30 s and finally $18 \mathrm{~km} / \mathrm{h}$ for next 10 s . Find the average speed of your journey.
Q4. Given below is the velocity-time graph for a moving car. What does the nature of the graph show from $D$ to $E$ ? Find the acceleration of the car from 2 to 6 seconds.


## Chemistry

Q1. Add 50 ml of hot water in a glass tumbler A and 50 ml of cold water in a glass tumbler B. Put a few crystals of sugar in each tumbler and stir. In which of the glass tumbler does the sugar dissolve faster? Explain.
Q2. Place a few lighted incense sticks in a corner of a room and move to the next room. How did the fragrance travel to the next room?
Q3. Note down your observations -(i) when you blow air in the balloon (ii) when too much air is blown into it. Explain the reasons for your observations in both the conditions.

## Biology

Q1. A patient complaining of fever with blisters and red spots on his body is advised to be in self-quarantine.
a. Which disease is the patient suffering from?
b. Name the causative organism of the above-mentioned disease.

Q2. Recently our finance minister Ms.Nirmala Sitaraman announced Rs. 500 crores for bee-keeping initiative to help two lakh beekeepers in India.
a. What is the contribution of the apiculture market to the Indian economy?
b. What is the role played by honey bees in plant production?
c. Name any two products which are obtained through beekeeping.

Q3. What are the requisites of a good yield and good quality of honey in beekeeping?

## Worksheet-2

## Activity

Collect the information from the internet about five communicable diseases in India, Sri Lanka and Kenya. Represent the data collected (countrywise) in the form of a report as per the following parameters:
i) Name of the disease
ii) Causative agent
iii) Symptoms

## Assignment 2

## Physics

Q1. Use the stopwatch in your phone and count the pulse for one minute. Calculate its frequency.
Q2. The guitar sound recorded during your class assembly is shown in the waveform given below:
a. Which letter represents the amplitude of the sound wave?
b. Which letter represents the wavelength of the sound wave?


Q3. While walking back home from school, you travelled 20 m in 2 s and then another 16 m in 2 s .
Calculate your average speed.

## Chemistry

Q1. Take one-fourth bucket of water (room temperature) and immerse your feet into it. Do you feel any change in the temperature of your body? Give reasons.
Q2. Heat water in a kettle/pan under an adult supervision. After five minutes, place your palm to feel the steam released. Which is hotter - steam or the boiling water? Explain.

Q3. a. Observe a clinical thermometer (not digital) and note down the following-
(i) Check your body temperature on both Celsius (C) scale and Fahrenheit (F) scale.
(ii) Note down the temperatures on the Celsius scale that are equivalent to $102^{\circ} \mathrm{F}$ and $104^{\circ} \mathrm{F}$.
b. Collect the following information from internet-
(i) Formula for Celsius $\left({ }^{\circ} \mathrm{C}\right)$ to Fahrenheit $\left({ }^{\circ} \mathrm{F}\right)$ conversion.
(ii) Normal temperature of a human body on the Celsius $\left({ }^{\circ} \mathrm{C}\right)$ scale. Using the conversion formula, convert it into Fahrenheit $\left({ }^{\circ} \mathrm{F}\right)$ scale.

## Biology

Q1.On a visit to a grocery shop, we see a range of organic products displayed on a separate shelf. How are organic products different from non-organic products in terms of agricultural practice?
Q2. What are the advantages of bio fertilizers over chemical fertilizers?
Q3. After Diwali break when the school reopened, you were asked to wear a mask even while attending classes.
a. Why was it imperative to do so?
b. What are the health-related issues that can be caused due to non-observance of the above advisory?

## Worksheet 3

## Activity -

Step 1-Take two metallic pans A and B. Heat camphor in pan A and ice cubes in pan B. Observe the changes.

Step 2- Cover the containers with lids while heating. After five minutes remove the lid.
Step 3- Note down your observations in the following table-

| Container | A | B |
| :---: | :---: | :---: |
| Observation at Step 1 |  |  |
| Observation at Step 2 |  |  |

Step 4- Name the processes involved in each case. Make a video of the activity performed and mail it to the respective teacher.

## Assignment 3

## Physics

Q1. The picture below depicts an ultrasound scan.

a. What is the medical application of the ultrasound?
b. Why is it called "ultrasound"?

Q2. In an automobile, you must have noticed two devices to measure different quantities.
a. Name the two devices.
b. The speed of a car/scooter is shown below. Find its acceleration in the SI units.

| Time | Speed |
| :--- | :--- |
| $9: 25 \mathrm{am}$ | $36 \mathrm{~m} / \mathrm{s}$ |
| $9: 45 \mathrm{am}$ | $72 \mathrm{~m} / \mathrm{s}$ |

Q3. The walls of the movie hall are covered with a special material.
a. What is the special material? Why is it used?
b. Suggest any other method to obtain the same result.

## Chemistry

Q1.Take two glass tumblers filled with water. Drop an iron nail in the first tumbler and an ice cube in another one. Which substance sinks and which of them floats? Explain.
Q2.Notice the warning sign on the deodorant spray cans stating not to leave the can in direct sunlight. Give reasons for this.

Q3.Wear a cotton dress/shirt one day and a synthetic dress/shirt on another day. Which of them will be more comfortable? Give reason.

## Biology

Q1. After consuming street food, you were feeling queasy and experienced discomfort.
a. What could be the cause of this condition?
b. Ask your mother about any two home remedies to deal with the above mentioned condition.

Q2. Ask your parents to show your immunization report/card:
a. List any four diseases against which you are vaccinated.
b. Name the single vaccine that you have taken against three diseases.

## Worksheet 4

## Activity

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.

Answer the following questions based on your observation in your biology notebook:
a. Make a list of biodegradable waste generated from your kitchen.
b. Enlist biodegradable waste from your house other than the kitchen.
d. What is the composition and texture of manure?
e. Is adding manure beneficial for the plants? Justify your answer.
f. How is composting different from vermicomposting?
g . What changes did you observe in the quality of the soil after adding manure?
h. Did you observe water logging in the pot or not? Give reason for both the cases.
i. Write down the benefits of drip irrigation.

## Assignment 4

## Physics

Q1. During a regular health check-up you would have seen a doctor using a stethoscope. What is the use of a stethoscope? Explain the principle of working of a stethoscope.
Q2. Given below is a distance versus time graph for motion of a car where distance and time has been plotted in SI units.


Calculate: a) distance covered in 20 seconds b) velocity attained in the first 15 seconds.
Q3. Animals can sense earthquakes before humans.
a. Why are humans unable to detect these sounds without using an instrument?
b. What is the normal audible range for human adults?

## Chemistry

Q1. Take 10 ml of water in a widely open container and keep it near a window or in your balcony. Now take 10 ml of water in another container and heat it. On the basis of your observations, differentiate between evaporation and boiling.
Q2. You are planning to wear your favourite cotton shirt today. You need to wash it, dry and iron it in 2-3 hours. What steps would you follow to make it dry faster?

Q3. Add ice cold water in a glass tumbler. What do you observe on the outer surface of the glass? Give reason.
Q4. Take two drops each of water and nail polish remover (acetone) alternatively on your palm and share your experience with respect to the cooling effect. Give reason.

## Biology

Q1. Your mother made Kheer/ payasam for dessert during the holidays. The best thing about dessert is the dry fruits which enhance the preparation. The swollen raisins are a surprise.
a. Why do raisins swell up in the desserts and other preparations too?
b. How is the above mentioned process advantageous to plants?

Q3. Sow some seeds in a pot and water once a day regularly. Name the structure that emerges as the seed germinates.

## Subject: Social Science

## Worksheet-1 (HISTORY)

1. Describe any three causes for the fall of the Jacobin government in France.2
2. What types of taxes were paid by the third estate in France? 2
3. Highlight the ideology of Liberals. 2
4. Explain the views of the socialists on private property with special emphasis on Karl Marx.
5. Highlight any three steps taken by Robespierre to established equality in French Society? 3
6. Explain the turmoil in the French countryside, when the National Assembly was busy at Versailles drafting a new constitution. 3
7. Explain triangular slave trade carried on during 18th and 19th century.
8. Activity -

The countries across the world are grappling with the Covid-19. This pandemic has exposed the labour class to a subsistence crisis in our country too.

Make a PPT comparing the plight of the Indian labourers with that of the French labourers. 5
Guidelines for PPT

1. Prepare PPT not more than 20 slide
2. Use simple slide design.
3. Use plenty of visuals with data.

## Worksheet 2 (GEOGRAPHY)

1. How has the opening of Suez Canal helped in reducing the distance between India and Europe?
2. Why is the Indian Ocean named after our country? 1
3. Name the processes which have created and modified the relief to its present state.
4. What is the time lag between Gujarat and Arunachal Pradesh? How is a uniform time set in all places?
5. What is the theory of Plate Tectonics?
6. What is the longitudinal extent of India? Mention the degree of longitude for Standard Meridian. State the importance of Standard Meridian.
7. Give an account of the four divisions of Himalayas from west to east along with
Purvanchal hills. ..... 3
8. Mention divisions of Northern Plains marked by rivers. ..... 3
9. Write a note on the location and size of India. ..... 3
10. How has the long coastline been beneficial to India? ..... 3

PROJECT-"Nature is unpredictable and nothing in the world can withstand it's fury. Natural disaster come without warning." Prepare a power point presentation on the recent cyclone that hit India and compare with past cyclones that has hit the Indian coast.

Topic of the project - cyclones in India: Preparedness and Management

Guidelines for submitting the project

1. Prepare a PPT not more than 20 slides
2. Use simple slide design
3. Use plenty of visuals
4. Keep things simple and to the point
5. Include maps, pictures and graphs.
6. Follow the sequence
a. Introduction
b. Define disaster
c. Causes and effects of cyclones
d. Types of cyclone
e. Extent of damage
f. Recent cyclones in India
g. Preparedness to tackle the situation
h. Organization working to help.
i. Do's and don'ts
j. Problems in disaster preparedness and management
k. Suggestions
7. Sources of information
m. Presenters name, class and section

## Worksheet 3 (POLITICAL SCIENCE)

1. What role do the citizens play in a democracy? ..... 2
2. Why is Pakistan not a democratic country? Give reasons. ..... 2
3. What are the shortcomings of democracy? Give two points. ..... 2
4. "Democracy improves the quality of decision making." How? ..... 2
5. Why does a democratic government cannot do whatever it likes after the elections? ..... 3
6. How can popular leaders be autocratic and popular government undemocratic? Explain with reference to Zimbabwe. 3
7. How was 'apartheid practised in South Africa?
8. Keeping in mind the basic features and principles of democracy, can you say that India is a democratic country? Explain by giving examples. 3

ACTIVITY 5

Prepare a report on the condition of migrant workers. 'In the wake of Covid-19, migrant workers are leaving Delhi despite the fact that water, electricity is free in Delhi.'

Hints:(Covid-19, background, lockdown, problems faced by workers, controversies (centre and state), steps taken by the government)

## Worksheet -4 (ECONOMICS)

1. What is the aim of production? 1
2. What do you mean by multi cropping and dual cropping? 1
3. What are the four requirements of production? 1
4. How did the spread of electricity help farmers in Palampur? 1
5. What are farm and nonfarm activities? Give examples 1
6. Explain any three factors of production. 3
7. Describe the infrastructure development of village Palampur. 3
8. How did the Green Revolution affect the cost of cultivation? 3
9. What factors have led to the reduction of water level in Palampur? 3
10. Explain the problems which arise due to the unequal distribution of land. 3
11. How is the locust surge posing a threat to agriculture in India? How can India combat the insect invasion?

Make a report on the impact of the locust attack on Indian agriculture especially during the difficult circumstances brought on by the Covid-19 pandemic. Interpret trends in the innovative ways to prevent any further locust attack in India.

## Hints:

- Locust Warning Organization (LWO)
- How are locust invasion dealt with?
- Is adequate action being taken?
- preventive control strategy supported by Food and Agriculture Organization (FAO).
- https://theconversation.com/lessons-on-how-to-effectively-tackle-insect-invasions-129834


## Subject: Computer Science

## Practical Section

1. Use the feature of MAIL MERGE in LibreOffice Writer.

Type the letter shown below. Save the document in your folder.
SMSD School
New Delhi
Date: 3 August 2020
<Title>
<Address1>
<Address2>
Teacher Parent Meeting: Please take this opportunity to discuss the progress of your child by meeting the class teacher on <date> at <time> at the classroom.

## Principal

Use Mail Merge. For Data source/Address List, enter data of any ten people as shown in the table below as an example:

| Title | First <br> Name | Last <br> Name | Address 1 | Address <br> $\mathbf{2}$ | Child <br> Name | Date | Time |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Mr. | Raman | Sinha | M P Nagar | New <br> Delhi | Deepti | 25-07-2020 | $9: 00 \mathrm{am}$ |
| Dr. | Manish | Mangal | Shyamla Hills | New <br> Delhi | Shravya | 25-07-2020 | $9: 30 \mathrm{am}$ |
| Mrs. | Manmeet | Kaur | Akriti City | New <br> Delhi | Simran | $25-07-2020$ | $10: 00 \mathrm{am}$ |

2. 


A. Create an invoice for the items ordered from McDonald's using Excel spreadsheet and calculate the total amount paid.

| Bill To: | Name |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Street Address |  |  |  |
|  | City |  |  |  |
|  | Phone |  |  |  |
| Name of the Items ordered |  | Unit Price | Quantity | Amount |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| $\begin{gathered} \text { Special } \\ \text { Discount }(10 \%) \\ \hline \end{gathered}$ |  |  |  |  |
| Total Bill |  |  |  |  |

B. Write the function to calculate the count of the items ordered from McDonald's. 1
C. Use What-If Analysis feature to get the amount spent should be below ₹ 500

3 Create an invoice for the following items purchased from PANTLOONS using Excel spreadsheet include different discounts on different items:

## Item Discount Quatity

- T-Shirts $15 \% \quad 2$
- Jeans 20\% 3
- Shoes $10 \% 1$
- Belt - 2
- Tie - 2

The cell headings should be Items Purchased, Price of each Item, Discount \%, Discounted Price and Total Bill.



## Answer the following in a word document:

5 Draw all the icons of formatting toolbar and write its uses. 3
6 How will you insert callouts on your document? 2
7 How you can collapse or expand parts of a document? 2

## Project Work:

## Case Study on Cyber Security.

Nivedita has recently shifted to a new city and a new school. She is not familiar with people in the city and the students in the school. She notices that social networking profile has a number of negative \& demeaning comments. She's also feel harassed and her inbox is bombed with unwanted mails. She feels that somebody is constantly stalking her online.
Answer the following questions based on the information mentioned above:
a) In what kind of situation is Nivedita? 1
b) What is the immediate action expected from Nivedita?
c) Is it recommended that one shares their personal details while registering on a website online?
d) List any five precautions one should follow while using the internet and email. 5

