

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

Subject: English

1. Read your Read-a-thon book.
2. Read the supplementary reader 'Story of My Life'
3. Revise the lessons covered in class so far.
4. Attempt MCB and Workbook : Lessons 1 to 5.
5. Download and complete the worksheets for grammar practice.

Worksheet-1

Q1. The following passages have not been edited. There is an error in each line against which a numeral is given. Write the incorrect word and the correction in the space provided. Remember to underline the word that you have supplied.

1/2x8=4

	Incorrect	Correct
Vishnupuram is a small town at the Western coast of India. It is not yet polluting by too many tourism. The place is superb for its scenic beautiful and exhilarating climate.	eg... at	on
The fort on a hill on the beach remind us of the time when it was built too defend the place from foreign sea-robbers. Various article exhibited in the museum remind us off the time when the people of the place had trade relations to many countries of the world.	(a) .....	.....
	(b) .....	.....
	(c) .....	.....
	(d) .....	.....
	(e) .....	.....
	(f) .....	.....
	(g) .....	.....
	(h) .....	.....

Q2. Complete the following sentences with suitable words:

1/2x10=5

Many scholars and learned men (a)..... to visit King Krishna Deva Raya's court. The king himself was a learned man and (b)..... to entertain those distinguished guests. Very often, the scholars, who (c)..... his court (d)..... his courtiers. The king greatly (e)..... these contests of wit and wisdom.

One day, a scholar (f)..... to the palace. He was a well-learned person and (g) many languages. The king (h)..... him with great pleasure and (i)..... him to spend a few days in the palace. The visitor (j)..... the invitation happily.

Q3. Read the dialogue given below and then complete the report that follows. Write the answers in your answer sheet against the correct blank numbers. **1x3=3**

Anne : I want to order a big pineapple cake for my birthday.

Confectioner : When is your birthday?

Anne : It is tomorrow.

Confectioner : You can collect it by noon.

Anne told a confectioner (a)..... a big birthday cake for her birthday. The

confectioner asked (b)..... Anne replied it was on the following day.

The confectioner told her (c)..... by noon

Q4. Look at the words and phrases below. Rearrange them to form meaningful sentences to make readable passage. Write the correct sentences in the space provided. **1x5=5**

(a)love / of others / good manners / and / win the / respect

(b) when / best / they can / one is / be learnt / young

(c)saves us / turns away / soft answer / anger and / a / a pitfall / from many

(d)who is / stranger / respectful / a person / even / like

(e) sure / in life / they / passport / are a / for success

Worksheet -2

Q1. The following passage has not been edited. There is an error in each line against which a number is given. Write the incorrect word and supply a correct word in place of that. Remember to underline the word that you have supplied.

1/2x8=4

	Incorrect	Correct
After stopping for the cup of tea,	eg.. the	a
I begin the steep walk uphill.	(a) .....	.....
Though this was the first time I have climbed,	(b) .....	.....
I did not found it too difficult	(c) .....	.....
for me to keep going. The last parts	(d) .....	.....
of the climb was really difficult.		
At times I was quite frighten. But	(e) .....	.....
I had been giving the advice,	(f) .....	.....
not to look down; I keep remembering it.	(g) .....	.....
In last, I reached the top safely.	(h) .....	.....

Q2. Complete the following sentences with suitable form of the words:-

1/2x8=4

The courtiers (a)..... every trick in the book. They spoke with him in several languages. Interestingly, the scholar (b)..... fluent in all of them and therefore the courtiers (c)..... figure out what his mother tongue was. Meanwhile, Tenali Raman (d)..... quietly in one corner. He (e)..... even make an attempt to speak to the scholar. Tenali Raman was the most intelligent among Krishna Deva Raya's courtiers. So the king (f)..... He (g)..... Raman why he (h).....take up the challenge.

Q3. Read the following conversation and complete the passage. Write your answers in the space provided.

1x4=4

Mother : Why are you late from school, Amit ?

Amit : I slipped on a banana peel while coming from school to the bus stop,

Mother : O, my son! Did you hurt yourself?

Amit : I got a bad bruise on my left knee.

Mother asked Amit (a)..... Amit replied that (b)..... while coming from school to the bus stop. Mother was shocked to hear this. She further asked

(c)..... Amit answered that (d).....

Q4. Look at the words and phrases below. Rearrange them to form meaningful sentences to make a readable passage. Write the correct sentences in the space provided.

1x4=4

(a) in / we / of / science / the age / live

(b) and space / conquered / air, time / we have / help of / with the / scientific inventions

(c) inventions / armed / which are / has / miracles / science / man with / not less than

(d) deadly weapons / science has / of warfare / also given / man

Worksheet 3

Q1 Read the conversation and complete the passage given below:

1x4=4

Customer : Can I have a small bottle of tomato sauce?

Shopkeeper :Sorry, I have only big bottles.

Customer : When will it be available?

Shopkeeper :I can give it to you tomorrow.

Customer : Thank you, then I will get it tomorrow.

The customer asked the shopkeeper (a) The shopkeeper said that he only had big bottles of tomato sauce. The customer wanted to know (b) The shopkeeper said that (c)The customer thanked him and said that (d)

Q 2. The following passage has not been edited. There is an error in each line. Identify the error and write the incorrect word and the correction in the sheet:-

1/2x7=3.5

Community service sensitize people to	(a)sensitize	sensitizes
other's needs and supports inclusive	(b)_____	_____
development to the underprivileged	(c)_____	_____
sections with society. Courses about social	(d)_____	_____
work prepares frontline workers for	(e)_____	_____
takes up assignments in social welfare	(f)_____	_____
organizations. Practical work include	(g)_____	_____
50 hour of structured internship.		

3.. Rearrange the following words/ phrases to form meaningful sentences. One has been given for you as an example.

1x3=3

a)E.g. dedicated/the poorest of the poor/ entire life/ she/ to/ her/the/ service/ of

She dedicated her entire life to the poorest of the poor.

a) Mother Teresa/ Calcutta/ foreigner/and/home/settled/though/in/made/a/it/he

.....

b) she/apostle/was/of/unwanted/the/an

.....

c) mother/was/anointed/saint/a/as/Pope/by/in 2016/Teresa

.....

Q4. Fill in the blanks with suitable words:

1/2x8=4

The state of Odisha(a)----- along the eastern sea-board of India, South of Bengal. (b)-----
-main attractions are the Temple towns of Puri and Bhubaneshwar and the Great Sun Temple at Konark. (c)-
-----three (d)-----make a convenient (e)-----compact little triangle. (f)-----
state is predominantly rural, (g)-----fertile plains (h)-----the coast rising up to the hills of the
Eastern Ghats.

Worksheet 4

Q1. You are Hardeepak Singh, a brilliant student who has completed his class X from a small town in Himachal Pradesh, where not many facilities are available. Your friend has shown you an advertisement about a coaching centre for IIT-JEE. Write a letter to the Director of Surya Coaching Centre asking for more details. 6

Q2. Read the following advertisement for products using solar energy. 6

SOLAR POWER SYSTEMS FOR A GREENER INDIA

- EXCELLENT OFFERS
- Solar Cookers
- Solar Lanterns
- Solar Heating/Cooking Systems
- Solar Water Heater ^

Raj Solar Sales and Service 45-Panchkwan Road New Delhi

Write a letter to the editor of an English daily, making a plea to the common people to switch over to solar energy to conserve electricity and limit electricity bills.

Q3. Complete the story- 10

Ravi is excited as he is going to his favourite place Darjeeling. It is his lifetime wish to be there. Before starting the journey, he ensures that he hasn't forgotten anything. He gets into the train, settles in his seat and looks around.....

Worksheet 5

Q1. You are Rajiv/ Ragini, the teacher incharge of an excursion trip that your school is sending on an educational tour to Elephanta Caves during the Christmas vacation. Write a letter to the Tour Coordinator, Happy Tour and Travels, Nasik, enquiring about ten formation regarding duration accommodation, transport etc. 6

Q2. You are Laxmi/ Laxman, the Head Librarian at St. George's School Kolkata. Write a letter to the Sales Manager, Janta Book Depot, Kolkata. You can invent your own details. 6

Subject-Hindi

Note: Answer the following in your Hindi notebook.

Worksheet - 1

प्रश्न 1 निम्नलिखित अपठित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए :

ले चल नाविक मँझधार मुझे,

(1×4=4)

दे दे बस अब पतवार मुझे,

इन लहरों के टकराने पर आता,

रह - रह कर प्यार मुझे,

मत रोक मुझे भयभीत न कर,

मैं सदा कँटीली राह चला,

मेरे पथ के पतझारों में ही,

नव - नूतन मधुमास पला ।

मैं हूँ अबाध ,अविराम ,अथक,

बंधन मुझको स्वीकार नहीं ।

(क) राही नाविक से क्या आग्रह कर रहा है ?

(ख) कवि ने अपने विषय में क्या क्या बता रहा है?

(ग) 'मँझधार' शब्द का वर्ण-विच्छेद कीजिए ।

(घ) काव्यांश का उपयुक्त शीर्षक लिखिए ।

प्रश्न 2 शब्द की परिभाषा लिखिए तथा शब्द और पद में अंतर समझाते हुए उदाहरण दीजिए ।

(2×1=2)

प्रश्न 3 निम्नलिखित अशुद्ध वाक्यों के शुद्ध रूप लिखिए :

(1×4=4)

(क) तुम्हे सुर में बोलना चाहिए ।

(ख) भारत में अनेकों राज्य हैं ।

(ग) हमने आज खूब मिठाई खाया ।

(घ) खरगोश को काटकर गाजर खिलाओ ।

प्रश्न 4 निम्नलिखित मुहावरों के अर्थ लिखिए व वाक्य में प्रयोग कीजिए : (1×2=2)

(क) दबे पाँव आना (ख) अंधे के हाथ बटेर लगना

प्रश्न 5 निम्नलिखित वाक्यों का निर्देशानुसार रूपांतरण कीजिए : (1×3=3)

(क) रोज़ सुबह टहलने वाले स्वस्थ रहते हैं । (मिश्र वाक्य में)

(ख) बच्चे को सामने देखकर माँ को बहुत खुशी हुई । (सयुक्त वाक्य में)

(ग) शहर में तूफ़ान आया और तबाही मच गई । (सरल वाक्य में)

प्रश्न 6 निम्नलिखित प्रश्नों के उत्तर दीजिए : (1½×4=6)

(क) विद्यार्थी संघ के नेता अविनाश बाबू के झंडा गाड़ने पर क्या प्रतिक्रिया हुई ?

(ख) बड़े भाईसाहब के अनुसार जीवन की समझ कैसे आती है ?

(ग) कबीरदास जी के अनुसार हमारा अज्ञान कब समाप्त हो सकता है ?

(घ) ठाकुरबारी के महंत ने हरिहर काका के साथ कैसा व्यवहार किया?

प्रश्न 7 अपनी 'मनपसंद गाड़ी' के लिए एक विज्ञापन तैयार कीजिए । (1×5=5)

प्रश्न 8 अपने क्षेत्र में रिक्त पड़े स्थान पर वृक्षारोपण के लिए सुझाव देते हुए वन विभाग के निदेशक को पत्र लिखिए । (1×5=5)

Worksheet - 2

प्रश्न 1 निम्नलिखित अपठित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए : (1×4=4)

करके ऐसा काम दिखा दो जिस पर गर्व दिखाई दे ।

इतनी खुशियाँ बाँटो सबको हर दिन पर्व दिखाई दे ।

हरे वृक्ष जो काट रहे हैं उन्हें खूब धिक्कारो ।

खुद भी पेड़ लगाओ इतने धरती स्वर्ग दिखाई दे ।

वसुंधरा पर स्वास्थ्य शक्ति का बस आधार दिखाई दे ।

जड़ी बूटियों औषधियों की बस भरमार दिखाई दे ।

जागो बच्चों जागो मानव यत्न करो कोई ऐसा ।

कोई प्राणी इस धरती पर न बीमार दिखाई दे ।।

(क) कवि किसे धिक्कारने की बात कर रहे हैं?

(ख) कवि के अनुसार वसुंधरा का स्वास्थ्य ठीक होगा तो किस प्रकार का वातावरण होगा?

(ग) इस काव्यांश से हमें क्या सीख मिलती है ?

(घ) 'स्वास्थ्य' शब्द का वर्ण - विच्छेद कीजिए ।

प्रश्न 2 क शब्द और पद की परिभाषा लिखिए । (2×1=2)

ख शब्द और पद में अंतर समझाते हुए उदाहरण दीजिए ।

प्रश्न 3 निम्नलिखित अशुद्ध वाक्यों के शुद्ध रूप लिखिए : (1×4=4)

(क) तुम्हारी माताजी हवाई जहाज़ पर गई हैं ।

(ख) एक फूल की माला लेते आना ।

(ग) हमने आज नहीं जाना ।

(घ) देश की सम्मान करना हमारी धर्म है ।

प्रश्न 4 निम्नलिखित मुहावरों के अर्थ लिखिए व वाक्य में प्रयोग कीजिए : (1×2=2)

(क) नंगी तलवार लटकना

(ख) आटे दाल का भाव मालूम होना

प्रश्न 5 निम्नलिखित वाक्यों का निर्देशानुसार रूपांतरण कीजिए : (1×3=3)

(क) उसके आते ही बरसात शुरू हो गई ।

(मिश्र वाक्य में)

(ख) जैसे ही वह लेटा वैसे ही उसे नींद आ गई ।

(सयुक्त वाक्य में)

(ग) वह आया और पढ़ने बैठ गया ।

प्रश्न 6 निम्नलिखित प्रश्नों के उत्तर दीजिए : (1½×4=6)

(क) कलकत्ता के आंदोलन में स्त्री समाज की क्या भूमिका थी ?

(ख) वर्तमान शिक्षा पद्धति के विषय में बड़े भाईसाहब की क्या राय थी ?

(ग) मीराबाई श्याम की चाकरी क्यों करना चाहती हैं ?

(घ) ठाकुरबारी के विषय में लोगों की क्या धारणा थी ?

प्रश्न 7 'समुद्रतट का सौंदर्य' पर 80से 100 शब्दों में एक सुंदर अनुच्छेद लिखिए (5×1=5)
संकेत बिंदु : 1 तट की रमणीयता 2 प्राकृतिक वातावरण
3 पर्यटकों की भीड़ 4 समुद्र स्नान का आनंद

प्रश्न 8 सड़क पर आँखों देखी दुर्घटना के विषय में पुलिस वाले और दर्शक के बीच हुई बातचीत को संवाद के रूप में 70 से 80 शब्दों में लिखिए। (5×1=5)

Worksheet - 3

प्रश्न 1 निम्नलिखित अपठित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए (1×5=5)

हँस लो दो क्षण खुशी मिली गर, वरन् जीवन भर कंदन है,

किसका जीवन हँसी -खुशी में, इस दुनिया में रहकर बीता?

सदा सर्वदा संघर्षों को , इस दुनिया में किसने जीता?

खिलता फूल म्लान हो जाता,हँसता रोता चमन -चमन है।

कितने रोज चमकते तारे, कितने रह -रह गिर जाते हैं,

हँसता शशि भी छिप जाता है,जब सावन घन फिर आते है।

उगता -ढलता रहता सूरज, जिसका साक्षी नील गगन है

आसमान को छूने वाली , वे ऊँची -ऊँची मीनारें,

मिट्टी में मिल जाती है वे, छिन जाते हैं सभी सहारे,

दूर तलक धरती की गाथा, मौन मुखर कहता कण -कण है।।

(क) कवि दो क्षण की खुशी मिलते ही क्या करने के लिए कहता है ?

(ख) प्रकृति के माध्यम से कवि हमें क्या संदेश देना चाहते हैं ?

(ग) कवि किन-किन उदाहरणों के माध्यम से हमें जीवन के सत्य को समझाना चाहते हैं।

(घ) 'शशि' शब्द के दो पर्यायवाची लिखिए।

(ङ) उपर्युक्त काव्यांश का उचित शीर्षक लिखिए।

प्रश्न 2 शब्द की परिभाषा लिखिए तथा शब्द और पद में अंतर समझाते हुए उदाहरण दीजिए (1×5=5)

प्रश्न 3 निम्नलिखित अशुद्ध वाक्यों के शुद्ध रूप लिखिए : (1×4=4)

(क) तुमने सदा सच बोलना चाहिए ।

(ख) भारत मेरी देश हैं ।

(ग) रीमा ने बहुत अति सुंदर तस्वीर बनाई ।

(घ) चाय का एक गरम कप ले आओ ।

प्रश्न 4 निम्नलिखित मुहावरों के अर्थ लिखिए व वाक्य में प्रयोग कीजिए : (2×2=4)

(क) दिमाग हो जाना (ख) दाँतों पसीना आ जाना

प्रश्न 5 निम्नलिखित वाक्यों का निर्देशानुसार रूपांतरण कीजिए : (1×3=3)

(क) अध्यापक आए और सभी शांत हो गए। (मिश्र वाक्य में)

(ख) काम समाप्त करते ही वह निकल गया। (सयुक्त वाक्य में)

(ग) जैसे ही वह स्टेशन पहुँचा वैसे ही गाड़ी चल दी। (सरल वाक्य में)

प्रश्न 6 निम्नलिखित प्रश्नों के उत्तर दीजिए : (2×4=8)

(क) स्वतंत्रता मनाने हेतु क्या क्या तैयारियाँ की गई थी ?

(ख) बड़े भाईसाहब छोटे भाई को घमंड न करने की सलाह क्यों देते थे ?

(ग) कबीरदास जी निंदक को सदैव अपने पास रखने की सलाह क्यों देते हैं ?

(घ) हरिहर काका ने मन ही मन क्या फ़ैसला किया?

प्रश्न 7 'लाजवाब घड़ी' के लिए एक सुंदर विज्ञापन तैयार कीजिए ।

प्रश्न 8 संजोग/ संयोगिता की ओर से दुर्व्यवहार की क्षमा माँगते हुए क ख ग विद्यालय की प्रधानाचार्य को पत्र लिखिए।

Worksheet - 4

प्रश्न 1 निम्नलिखित अपठित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए

केवल कोरे कागज़ रँगना कविता कैसे हो सकती है ? (1×4=4)

जहाँ कहीं है घना अँधेरा सूरज वहाँ उगाना है।

कौर छिन रहा जिनके मुँह से उनको कौर खिलाना है।।

शंखनाद को सुन-सुन करके जनता कैसे सो सकती है ?

पल-पल बदल रही दुनिया की धड़कन सुनना बहुत जरूरी।

उग्रवाद, बाज़ारवाद की चालें गुनना बहुत जरूरी।।

बम-बारूद बिछा घर-आँगन, सुविधा कैसे हो सकती है?

- 1 उपर्युक्त काव्यांश में कवि किसे ज़रूरी बता रहा है ?
- 2 कवि जनता के विषय में क्या कहना चाहता है?
- 3 उपर्युक्त काव्यांश का उचित शीर्षक लिखिए।
- 4 'शंखनाद' शब्द का वर्ण-विच्छेद कीजिए

प्रश्न 2 (क) शब्द कब पद बन जाता है? (2×2=4)

(ख) शब्द और पद में अंतर समझाते हुए उदाहरण दीजिए।

प्रश्न 3 निम्नलिखित अशुद्ध वाक्यों के शुद्ध रूप लिखिए : (1×4=4)

(क) वह छत में खड़ा है।

(ख) बगीचे में अनेकों लोग थे।

(ग) मेरी माताजी बाज़ार गए हैं।

(घ) गाय को भारत में पूजा माना जाता है।

प्रश्न 4 निम्नलिखित मुहावरों के अर्थ लिखिए व वाक्य में प्रयोग कीजिए : (1×2=2)

(क) आपा खोना (ख) लाज रखना

प्रश्न 5 निम्नलिखित वाक्यों का निर्देशानुसार रूपांतरण कीजिए : (1×3=3)

(क) माताजी बाज़ार जाकर खिलौने लाईं। (मिश्र वाक्य में)

(ख) घर जाकर गृहकार्य पूरा करो। (सयुक्त वाक्य में)

(ग) जैसे ही सूर्यास्त हुआ जैसे ही अंधकार हो गया। (सरल वाक्य में)

प्रश्न 6 निम्नलिखित प्रश्नों के उत्तर दीजिए : (1½×4=6)

(क) लेखक बड़े भाईसाहब के सामने मौन क्यों रह जाते थे ?

(ख) पुलिस ने बड़े बड़े मैदानों तथा पार्कों को क्यों घेर लिया था ?

(ग) मीराबाई की भाषा शैली की विशेषताएँ लिखिए ?

(घ) अनपढ़ होते हुए भी हरिहर काका दुनिया की बेहतर समझ रखते हैं ?

प्रश्न 7 'मेरा भारत महान' विषय पर दिए गए संकेत बिंदुओं की सहायता से एक सुंदर अनुच्छेद लिखिए :

(5×1=5)

संकेत बिंदु : 1 सभ्यता एवं संस्कृति 2 प्राकृतिक सौंदर्य 3 विभिन्नता में एकता

प्रश्न 8 बैंक की चौक बुक खो जाने की सूचना देते हुए बैंक प्रबंधक को पत्र लिखिए। (5×1=5)

Subject : Mathematics

Note: Answer the following in your Math notebook.

- Q-1 Explain why $3 \times 5 \times 7 + 7$ is a composite number. (1)
- Q-2 Find the nature of the following equations: (1x4)
- (i) $x^2 - 4x + 2 = 0$
- (ii) $3x^2 + 2x - 1 = 0$
- (iii) $9x^2 + 7x - 2 = 0$
- (iv) $3x^2 + 2\sqrt{5}x - 5 = 0$
- Q-3 If the H.C.F. of 210 and 55 is expressed in the form $210x + 55y$, Find y. (2)
- Q-4 Prove that $\sqrt{p} + \sqrt{q}$ is an irrational number. (2)
- Q-5 Without actually performing the long division, state what type of decimal expansion the following numbers have? (2)
- $459/500$, $219/750$ $257/5000$ $29/2^2 \times 5 \times 7$
- Q-6 Prove that $4\sqrt{7}$ is irrational. (2)
- Q-7 Using the method of fundamental theorem of arithmetic find the H.C.F. of 630, 945 and 1470. (2)
- Q-8 If $A = 2n + 13$ and $B = n + 7$, where n is a natural number then find the H.C.F. of A and B . (2)
- Q-9 Show that the square of an odd positive integer is of the form $6q + 1$ or $6q + 3$ for some integer q . (2)
- Q-10 If one of the zero of the quadratic polynomial $(k-1)x^2 + kx + 1$ is -3 , then find the value of k . (2)
- Q-11 If the polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by another polynomial $3x^2 + 4x + 1$, the remainder is $(ax + b)$, find a and b . (2)
- Q-12 Find a cubic polynomial whose zeroes are 3, 5 and -2 . (2)
- Q-13 Find the value of k for which the following pair of equations have infinitely many solutions: (2)
- $x + (k+2)y = 4$ and $(2k-1)x + 25y = 6k + 2$
- Q-14 Solve the following equations by factorization: (4x2)
- (i) $8x^2 - 22x - 21 = 0$
- (ii) $9x^2 - 3x - 2 = 0$
- (iii) $x^2 + 2\sqrt{2}x - 6 = 0$
- (iv) $\sqrt{3}x^2 + 10x + 7\sqrt{3} = 0$
- Q-15 Find the greatest number that will divide 445, 572 and 699 leaving remainder 4, 5 and 6 respectively. (3)
- Q-16 The numbers 525 and 3000 are both divisible by 3, 5, 15, 25 and 75. What is the H.C.F. of 525 and 3000. Justify your answer. (3)
- Q-17 Divide $5x^3 - 13x^2 + 21x - 14$ by $(3 - 2x + x^2)$ and verify the division algorithm. (3)
- Q-18 use the division algorithm to find the quotient and remainder when $8x^4 - 12x^3 - 2x^2 + 15x - 4$ is divided by $2x^2 - 3x + 1$. (3)
- Q-19 If one of the zero of the polynomial $3x^2 - 10x + (2k-1)$ is a reciprocal of the other, then find the value of k . (3)
- Q-20 Find the zeroes of the polynomial $2x^3 - 15x^2 + 37x - 30$, if it is given that the zeroes are $(a-d)$, a , $(a+d)$. (3)
- Q-21 Obtain the zeroes of the polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$ and verify the relation between its zeroes and coefficients. (3)
- Q-22 Show graphically that the system of equations $2x + 4y = 10$ and $3x + 6y = 12$ has no solution. (3)

- Q-23 Solve the following equations by substitution method : (3)
 $2x+y-35=0$ and $3x+4y-65=0$.
- Q-24 Solve the following equations: (3)
 $(a-b)x+(a+b)y = a^2-2ab-b^2$ and $(a+b)(x+y)=a^2+b^2$
- Q-25 Solve the following equations graphically and hence find the value of a if $4x+3y=a$.
 $x+3y=6$ and $2x-3y=12$. (3)
- Q-26 Solve the following equations for x and y: (3)
 $a^2/x - b^2/y = 0$ and $a^2b/x + b^2a/y = a+b$.
- Q-27 The sum of the numerator and the denominator of a fraction is 4 more than twice of its numerator. If the numerator and denominator are increased by 3, they are in the ratio 2:3. Find the fraction. (3)
- Q-28 Seven times a two digit number is same as four times the number obtained on interchanging the digits of the given number. If one digit of the number exceeds the other by 3, find the number. (3)
- Q-29 The monthly incomes of A and B are in the ratio 4:3 and their monthly expenditure are in the ratio 13:9. If each saves Rs.1500 per month, Find the monthly income of each. (3)
- Q-30 Solve the quadratic equation $9x^2-15x+6=0$ by completing the square method. (3)
- Q-31 Solve for x: $1/x+1 + 2/x+2 = 4/x+4$ (3)
- Q-32 If -4 is a root of the quadratic equation $x^2+px-4=0$ and the quadratic equation $x^2+px+k=0$ has equal roots, find the value of k. (3)
- Q-33 The area of a right triangle is 600cm^2 . If the base of the triangle exceeds the altitude by 10cm. find the dimensions of the triangle. (3)
- Q-34 Seven years ago Varun's age was five times the square of swati's age. Three years hence swati's age will be two-fifth of varun's age. Find their present ages. (3)
- Q-35 If two zeroes of the polynomial $x^4-13x^3+52x^2-64x+24$ are $3+\sqrt{5}$ and $3-\sqrt{5}$, find other zeroes. (4)
- Q-36 The zeroes of the polynomial $9x^2-18x+8$ are α and β . Find a quadratic polynomial whose zeroes are (i) α^2/β and β^2/α (ii) $2\alpha+3\beta$ and $3\alpha+2$. (4)
- Q-37 Solve the following equations graphically and determine the vertices of the triangle formed by lines and the y-axis. (4)
 $4x-5y-20=0$ and $3x+5y-15=0$
- Q-38 Prove that both the roots of the equation $(x-a)(x-b)+(x-b)(x-c)+(x-c)(x-a)=0$ are real but they are equal only when $a=b=c$. (4)
- Q-39 Using quadratic formula, Solve the following equation for x: (4)
 $abx^2+(b^2-ac)x-bc=0$.
- Q-40 A plane left 30 minutes late than the scheduled time and in order to reach its destination 1500km. away on time it has to increase its speed by 250km/hr. from its usual speed. Find its usual speed. (4)

Activities

- Form a pair of linear equation in two variables to a real life situation and solve it graphically.
- To verify the prime factorization of composite numbers experimentally
 e.g. $150=5^2 \times 3 \times 2$

Subject: Science

Objective:

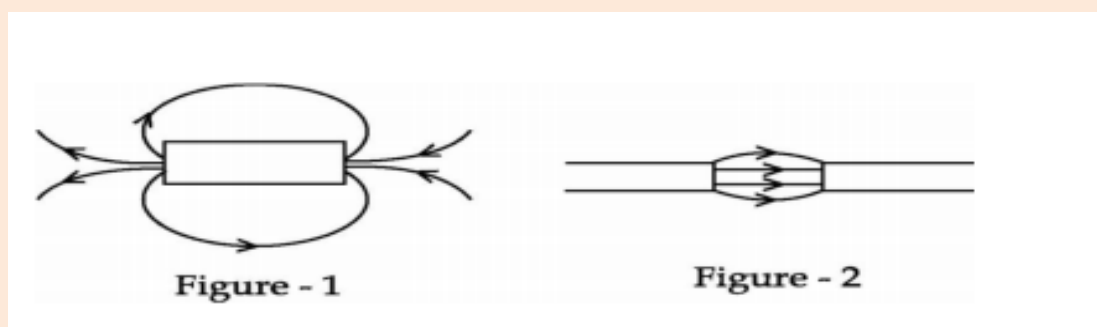
1. Revision of concepts
2. Application of the concepts to real life situations.
3. Skills to carry out research work and develop scientific aptitude

Instructions:

- Attempt the questions keeping in mind the weightage of each question in your respective notebook.

Physics

- Q1. A 9Ω resistance wire is cut in three equal parts and connected in parallel. Find the equivalent resistance of the combination. (2)
- Q2. Identify the poles of the magnet in the given figures. (2)



- Q3. A student constructed a box type solar cooker. He found that it did not work efficiently. (3)

What could this be due to? Give any four possible mistakes in the construction and operation of the cooker. What maximum temperature can ordinarily be reached inside a solar cooker?

- Q4. Draw the pattern of lines of force due to a magnetic field through and around (3)

a current carrying solenoid. How would the strength of the magnetic field produced by the solenoid be affected if (i) the strength of the current passing through it is doubled? (ii) the number of turns of the solenoid is reduced to half of the original number?

- Q5. The table given below shows the resistivity of three Material X, Y and Z? (3)

Samples	X	Y	Z
Resistivity	3×10^{-9}	11.1×10^{-6}	18×10^{-17}

- a) Arrange the samples in increasing order of conductivity
- b) Which of these is best conductor?
- c) Which are these is best insulator?

- Q6. An electric bulb draws a current of 0.8 A and works on 250 V on the average 8 hours a day. (3)

- a) Find the power consumed by the bulb
- b) If the electric distribution company charges Rs 5 for 6 KWH, what is the monthly bill for 60 days?

Q7. Manoj's father works in a nuclear power reactor. He asked his father to take him for a visit to nuclear power reactor. But his father was not keen to take him there. (3)

Now answer the following questions:

- i) What could be the possible reason of Manoj's father not taking him to the nuclear power reactor?
- ii) With the help of a diagram describe how energy is produced in a nuclear power plant.

Q8. Why is pure iron not used for making permanent magnets? Name one material used for making permanent magnets. Describe how permanent magnets are made electrically. State two examples of electrical appliances made using permanent magnets. (3)

Q9. Draw the pattern of lines of force due to a magnetic field through and around a current carrying loop of wire. How would the strength of the magnetic field produced at the center of the circular loop be affected if

- (i) the strength of the current passing through this loop is doubled?
- (ii) the radius of the loop is reduced to half of the original radius?

Q10. a) Calculate the resistance of 1Km long copper wire of radius 1mm. Resistivity of the copper wire is $1.72 \times 10^{-8} \Omega \text{m}$.

b) Draw a schematic diagram of a circuit consisting of a battery of 4 cells of 2V each connected to a key an ammeter and two resistors of 2Ω and 3Ω respectively in series and a voltmeter to measure potential difference across 3Ω . (3)

Q11. a) Though same current flows through the electric line wires and the filament of bulbs, yet only the Filament glows. Why?

b) The temperature of the filament of bulb is 2700°C when it glows. Why does it not get burnt up at such high temperature?

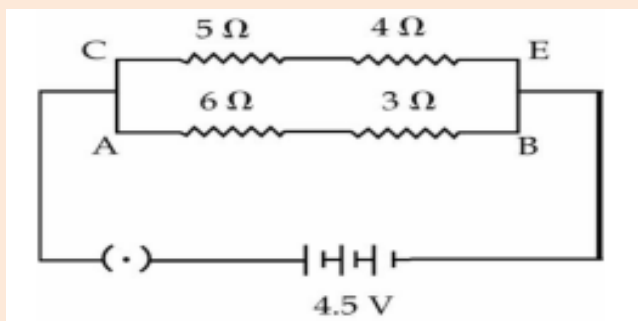
c) The filament of an electric lamp, which draws a current of 0.25 A is used for four hours. Calculate the amount of charge flowing through the circuit.

d) An electric iron is rated 2 kW at 220 V. Calculate the capacity of the fuse that should be used for the electric iron. (4)

Q12. Find out the following in the electric circuit given in Figure. (5)

- (a) Effective resistance of the combination.
- (b) Current flowing through 4Ω resistors.
- (c) Potential difference across 6Ω resistor.
- (d) Power dissipated in 5Ω resistor.

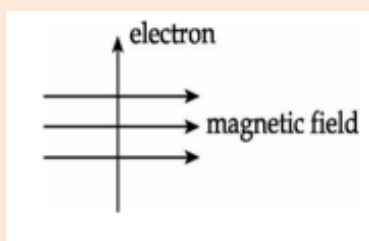
(e) Total current



Q13. a) Explain an activity to show that a current carrying conductor experiences a force when placed in a magnetic field.

b) State the rule which gives the direction of force acting on the conductor.

c) An electron moves perpendicular to a magnetic field as shown in the figure. What would be the direction of force experienced on the electron? (2+2+1=5)



Activity: Make a table with names of 5 electrical appliances used in your home in one column, their power, voltage rating and approximate time for which each is used in one day in the other columns. Estimate the units of energy consumed by these appliances for 10 days.

Check

the tariff plan from your electricity bill and calculate the electricity bill for 10 days with the above consumed units.

Chemistry

- Q1. A student took 2-3 g of a substance 'X' in a glass beaker & poured water over it slowly. He observed bubbles along with hissing noise. The beaker becomes quite hot. Identify 'X'. What type of reaction is it? (1)
- Q2. A compound 'X' is used for drinking, has pH=7. Its acidified solution undergoes decomposition in presence of electricity to produce gases 'Y' and 'Z'. The volume of 'Y' is double than 'Z', 'Y' is highly combustible whereas 'Z' is supporter of combustion. Identify 'X' 'Y' and 'Z' and write the chemical reactions involved. (2)
- Q3. Vedanta took a pale green substance 'A' in a test tube and heated it on the flame of a burner. A brown colour residue 'B' was formed along with evolution of two gases with burning smell of sulphur. Identify 'A' and 'B'. Write the chemical equation involved. (2)
- Q4. A student burnt a metal 'A' found in the form of ribbon. The ribbon burnt with a dazzling flame and a white powder 'B' is formed which is basic in nature. Identify 'A' and 'B'. Write the balanced chemical equation. (2)
- Q5. Vidisha has been collecting silver coins & copper coins. One day she observed a black coating on silver coins and green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name for the Black and Green coatings? (2)

- Q6. A few drops of phenolphthalein indicator were added to an unknown solution 'A'. It acquired pink colour. Now another unknown solution 'B' was added to it drop by drop and the solution become colourless. Predict the nature of 'A' and 'B'. (2)
- Q7. A student has mixed the solution of Lead (II) nitrate and potassium iodide. (3)
- What was the colour of the precipitate formed? Can you name the compound precipitated?
 - Write the balanced chemical equation for the reaction.
 - What type of reaction is it?
- Q8. Perform this activity in your kitchen. Take a container and mix baking soda and vinegar. (3)
- Observe the chemical reaction carefully.
- Write proper observation and result
 - Write the corresponding equation and identify type.
 - Write the inference drawn from the above activity.
- Q9. Write the chemical formula of the following compounds. (i) Lime (ii) Nitric Acid (5)
- (iii) Plaster of Paris (iv) Sodium acetate (v) Baking soda (vi) Washing soda (vii) Bleaching powder (viii) King of chemical (ix) Lime stone (x) Common Salt
- Q10. Write chemical equation for the following: (5)
- Barium chloride reacts with zinc sulphate to give zinc chloride and a precipitate of barium sulphate.
 - Methyl alcohol burns in air it reacts with oxygen from air to form carbon dioxide and water.
 - Solutions of silver nitrate is mixed with a solution of sodium chloride, a white precipitate of silver chloride is formed and sodium nitrate in aqueous.
 - Aqueous solution of lead nitrate and sodium sulphate are mixed, a white precipitate of lead sulphate is formed along with sodium nitrate.
 - Iron(III) sulphate (Ferric sulphate), on reaction with sodium hydroxide solutions, gives brown precipitate of iron (III) hydroxide and sodium sulphate.
- Q11. Write the formula of acid and base used to form the given salts. (i) Potassium Sulphate (6)
- (i) Zinc Chloride (iii) Ammonium Chloride (iv) Barium Sulphate
- Q.12 Write the name of acid present in the following. (i) Apple (ii) Curd (iii) Vinegar (7)
- (iv) Lemon (v) Orange (vi) Bee sting (vii) Tamarind
- Q13. Buy pH paper from the nearby chemist / chemicals shop and test the pH values of solutions given below in the tables. Record your observations. What is the nature (acids/ bases) of each substance on the basis of your observation? Also paste the corresponding pH strip (10)

S.No.	Solution	Colour of pH paper	Approx. pH	Nature of substance
1	Saliva (before meal)			
2	Saliva (after meal)			
3	Lemon Juice			
4	Colourless aerated drink			
5	Carrot juice			
6	Coffee			
7	Tomato juice			
8	Vinegar			
9	Baking soda			
10	Tap water			

Refer to the pH scale and pH chart given in the book.

Biology

Q1. (Activity) Prepare a diet chart for a week, day wise and meal wise with nutritive value of each day. Complete the following table and compare the nutritive value intake to the prescribed nutritive value of a child of your age.

S. No.	Food Items	Organs involved in Digestion	Name of Glands	Name of Secretion	Function of Secretion	Nutritive Value

- Q2. "Bile juice is not an enzyme still it plays an important role in digestion." Justify. (1)
- Q3. Why is the small intestine in herbivores larger than in carnivores? (1)
- Q4. Why is blood circulation in human heart called double circulation? (1)
- Q5. (i) Name the hormones that are released in human males and females when they reach puberty. (2)
(ii) Name a gland associated with brain. Which problem is caused due to the deficiency of the hormone released by this gland?
- Q6. Nervous and hormonal system together perform the function of control and coordination in (2)
human beings. Justify the statement.
- Q7. State how concentration of auxin stimulates the cells to grow longer on the side of the shoot (2)
which is away from light?
- Q8. Differentiate between tropic and nastic movements. (3)
- Q9. Explain the functioning of nephrons with the help of a well labelled diagram. (3)
- Q10. Draw a well labelled diagram of human heart. Why is it necessary to separate oxygenated (3)
and deoxygenated blood in mammals and birds?

- Q11. What is meant by reflex-action? With the help of a labelled diagram trace the sequence of (3)
 events which occur when we touch a hot object.
- Q12. Describe the steps involved in the mechanism of breathing in humans. (3)
- Q13. Draw neat diagram of human brain and label on it the following parts : (3)
 (i) Midbrain (ii) Pituitary gland
- Q14. State the functions of plant hormones. Name four different types of plant hormones. (5)

Subject: Social Science

Political Science

I Activity: - Do a comparative study of two countries (Mainly from Asia and America) of which one is following the power sharing system while the other is not from last one decade and draw a conclusion.

Guidelines: - Take the case of two countries like US and China.

- Compare them on the basis of their differences.
- What ways are being implemented to accommodate the diversities of USSR 1991.
- Find out the positive and negative feature of both the systems and draw a conclusion.

II Assignment: - Prepare a model of respective countries.

- Make a PPT on Social, economic & political differences of their countries, which took place between 2014 to 2018.
- Prepare comparative charts of those new ideas on which these countries accommodate their difference.
- How can we solve the problem of power sharing in the present Indian political system by 2050?
- "The creation of Linguistic states was the first and major test for democratic politics in our Country". Justify this statement.
- On what type of principles is the Indian Union based? Describe the three-fold distribution of Legislative powers between Union Government and the State Governments.
- Discuss the Constitutional Amendment of 1992 regarding the decentralization of powers.

III Answer the following questions in the notebook:

- | | |
|---|---|
| 1. Give the meaning of Coalition government? | 1 |
| 2. What does the federal division of power imply? | 1 |
| 3. Which is the highest institution of the Panchayat Raj in rural areas? | 1 |
| 4. What are the different forms of power sharing in modern democracies? Give an example of each of these. | 2 |
| 5. State one prudential reason and one moral reason for power sharing with an example from the Indian context. | 2 |
| 6. How is federation practiced in India? | 3 |
| 7. What is basic nature of Indian federal system? | 5 |
| 8. The creation of linguistic states was the first and the major test for democratic politics in our country. Justify this statement. | 5 |

History

I Activity : Make a project on the impact of globalisation on migration process.

OR

Make a project on the development of print culture in Asia.

Guidelines: - Take the case of two countries like China and India

- Write meaning, special features, origin.
- Development around the world.
- Technologies, policies made on the process.

II Answer the following questions in the notebook:

- | | |
|--|---|
| 1. Who write the autobiography Amar Jiban? | 1 |
| 2. Who brought out the Bengal Gazette? | 1 |
| 3. What is vellum? | 1 |
| 4. What was the impact of print culture on the poor people of India during the 19 th century?
Explain. | 2 |
| 5. Write any two examples to show the impact of technology on food availability. | 2 |
| 6. Explain the effect of the decision of MNCs to relocate production to Asian countries. | 2 |
| 7. Examine the role of missionaries in the development of press in India. | 2 |
| 8. Explain any three causes of the Great Depression? | 3 |
| 9. What was the importance of the Indian trade for the British? | 3 |
| 10. Explain how the global transfer of disease in the pre-modern world helped in the colonization of the Americas. | 3 |

GEOGRAPHY

I PROJECT: - Disaster Management for Thunderstorms and Lightning

PREPARATION AND SUBMISSION OF PROJECT REPORT: -

Following essentials are required to be fulfilled for its preparation and submission

1. The total length of the project report will be 10 -15 pages.
2. The project report will be handwritten, and credit will be awarded to original drawings, illustrations and creative use of materials.
3. The project report will be presented in a neatly bound simple folder.
4. The project report will be developed in this sequence-
 - Cover page showing project title, student information, school and year
 - List of contents

- Acknowledgements and preface (acknowledging the institution, offices and libraries visited and person who have helped).
- Introduction.
- Chapters with suitable headings.
- Conclusions (summary and suggestions or findings, future scope of study)
- Bibliography
- All the photographs and sketches should be labelled and related to the theme.
- Appendix (if needed)

II Answer the following questions in the notebook:

- | | |
|---|---|
| 1. What are ravines? | 1 |
| 2. Why did Nehru referred dams as 'temples of modern India'? | 1 |
| 3. What are the different names given to slash and burn agriculture in different countries? Mention any two. | 1 |
| 4. Name the states where three crops of paddy are grown. | 1 |
| 5. Explain three stages of resource planning in India. | 3 |
| 6. Discuss how modern adaption of traditional rainwater harvesting methods are being carried out to conserve and store water. | 3 |
| 7. Differentiate between primitive subsistence and intensive subsistence farming. | 5 |
| 8. Explain the steps taken by government for agricultural reforms after independence. | 5 |

Economics

I Project:- What is sustainable development? Why is it needed?

PREPARATION AND SUBMISSION OF PROJECT REPORT: -Following essentials are required to be fulfilled for its preparation and submission

1. The total length of the project report will be 10 -15 pages.
2. The project report will be handwritten, and credit will be awarded to original drawings, illustrations and creative use of materials.
3. The project report will be developed in this sequence-
 - Cover page showing project title, student information, school and year
 - List of contents
 - Acknowledgements and preface (acknowledging the institution, offices and libraries visited and person who have helped).

- Introduction.
- Objectives.
- Developments around the world
- Steps taken by Government of India
- Conclusions (summary and suggestions or findings, future scope of study)
 - Bibliography

II Answer the following questions in the notebook:

- | | |
|--|---|
| 1. What is economy? | 1 |
| 2. Define national income? | 2 |
| 3. What is per capita income? | 2 |
| 4. What is economic activity? | 2 |
| 5. What is non-economic activity? | 2 |
| 6. What is economic development? | 2 |
| 7. What do you mean by developed country? | 3 |
| 8. What do you mean by developing country? | 3 |
| 9. Define the term enterprise? | 3 |