

St. Mary's School, Dwarka
Holiday Home Work
Class: IX

Subject: English

1. Read your Read-a-thon book.
2. Read the supplementary reader Gulliver's Travels part I and II
3. Revise the lessons covered in class so far.
4. Make a comic strip on any one of the scenes from Gulliver's Travels part I and II .
5. Download and complete the worksheets for grammar practice.

Worksheet 1

Q1. The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction in the space provided. One is done as an example: **1/2x8=4**

	Incorrect	Correct
There is nothing much selfish	eg. much	more
you can do than come for work sick.	(a)
You may get a gold star for show	(b)
your sniffling face with the office	(c)
and soldiering for the workday to	(d)
provide you value — but everyone	(e)
around you just get sick. You are	(f)
a inconsiderate work hazard, when	(g)
you brought your infectious illness to work.	(h)

Q2. Rearrange the following words and phrases to form meaningful sentences. **1x4=4**

(a) the/ keep/ fit/ exercise/ oneself/ to/is/ key

(b) into/ can/ exercise/ activity/ incorporate/ any/ one/an

(c) combined/must/ diet/ proper/ with/ a / exercise/ be

(d) born/ 27 June, 1880/ Helen Keller/ in Tuscumbia/ on/ was

Q3. Fill in the blanks with suitable words:- **1/2x8=4**

The Vedic rishis had forewarned (a) to protect the environment. They mentioned (b) need to perform daily yajnas (c) protect ecology. 'Dharamshastras' prohibited man (d) disturbing the biodiversity (e)

.....the ecosystem as it (f)___ against the tenets of religion and considered a sinful activity. Atharva Veda' has meticulously dealt (g) the various aspects (h).....the environment and has urged people to be more sensitive towards the environment.

Q4 Report the following sentences in reported speech:-

1x6=6

Mr. Jones: Freddy, you aren't doing well in class, and you probably won't pass.

Freddy: I know that, but I don't have time to study.

Mr. Jones: Why don't you have time?

Freddy: I have to take my mother to the hospital every day. In fact, I took her there last night.

Mr. Jones: Are you the only one who can do that?

Freddy: She doesn't have anybody but me. My father died last year.

Mr. Jones warned Freddy that _____. Freddy informed her that he knew _____. Mr. Jones asked him _____. Freddy answered that he had to take his _____.

Mr. Jones further asked him _____ Freddy replied that she didn't _____.

Q5. A women's hostel in your neighbourhood looks after the poor and homeless women and girls. You have to interview the manager of the hostel as a part of your English project. Frame a set of five questions that you will ask him/her based on the hints given below.

no. of girls and women staying

facilities provided

education

employment

efforts to unite them with their families

Worksheet 2

Q1. The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction in the space provided. One is done as an example: **1/2x8=4**

	Incorrect	Correct
Overeating is one of the more wonderful practices among those which think that they can afford it. In fact that is said that near all those who can get as much as he desire, overeat to their disadvantage. This class of peoples could save the great deal more food than they can save by missing one meal per week and also improving their health.	e.g. more (a) (b) (c) (d) (e) (f) (g) (h)	most

Q2. Rearrange the following words and phrases to form meaningful sentences. **1x4=4**

a) very / now / proficient / have/ become / at doing / I/ task/ this

b) in / disturbs / the / cycle / rise / temperature / rain / the

c) vegetation / adversely / it / agriculture / and / affects

d) have / frequent / face / and / floods / we / droughts / to

Q3. Fill in the blanks with suitable words:- **1/2x10=5**

The constitution of India came (a)..... force on January 26th, 1950. (b) that time it (c) not contain any specific provision dealing directly (d) environment related issues, legislations (e) provisions in India. In 1976, (f) the leadership of Prime Minister Mrs. Indira Gandhi, the very first provision (g) the protection of environment was incorporated (h) constitution through 42nd ammendment. The objective of such legal provision (i) to improve and conserve the ecological (j) environmental assets of India.

Q4. You happen to meet one of the world famous mountaineers at a Youth Conference. Frame a set of five questions you would like to ask him/her with the help of the hints given below. **1x5=5**

1.inspiration_____

2.place of training_____

3.first experience of climbing_____

4.mountains conquered_____

5.plans for future_____

Q5. Report the following conversation in reported speech.

1x6=6

Mike: What are you doing here? I haven't seen you since June.

Liz: I've just come back from my holiday in Ireland.

Mike: Did you enjoy it?

Liz: I love Ireland. The Irish people were so friendly.

Mike: Did you go to the Wicklow Mountains?

Liz: Yes, I did.

Mike asked Liz_____. Liz informed him that she had_____. Mike inquired_____. Liz told him that she_____ Ireland. Mike wanted to know_____ Wicklow Mountains. Liz said _____.

Worksheet 3

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. **1/2x6=3**

After our stay in Russia, I return with my son to visit my family for India. We flew by the magnificent expanse of the Himalayas in New Delhi. The plane arrives after dark and by the time we reach my uncle's house, it was quite later at night.

Incorrect	Correct
e.g return	returned
a) _____	_____
b) _____	_____
c) _____	_____
d) _____	_____
e) _____	_____
f) _____	_____

2. Rearrange the following words/ phrases to form meaningful sentences. The first one has been done as an example: - **1x3=3**

Example: day/ too/ schools/ penguins/have
Penguins too have day schools.

a. place/feel/usually/in/elevated/a/the/chicks/secluded/safe/and

b. food/hunting/on / their/the/young ones/way from/pick up/the/parents

c. top of/the child/its voice/the parent/at the/responds to it/cackles/and.

3. Your friend has recently taken admission in a school in Dehradun. Frame a set of five questions asking him about the school. **1x5=5**

a. Location of the school

b. Distance from Delhi

c. Number of students

d. Whether most of the students are from the neighbouring states

e. Availability of Sports facilities and other extra- curricular activities

4. Complete the following passage using one word only.

1/2x6=3

The role (a)-----citizens becomes extremely important (b)-----a democracy. They (c)-----to be aware of their rights and know what they should expect (d)----- --their elected representatives. The citizens should (e)-----aware of the problems of their region as well as of the whole country. Only then (f)-----they understand whether the government is taking the right steps for their welfare or not.

Worksheet 4

Q 1. The following passage has not been edited. Identify the error in each line and write the correction against it. **Incorrect Correct 1/2x8=4**

Extraction of medicinal or aromatic plants	a)-----	-----
from the forest to be strictly regulated	b)-----	-----
if bio-diversity was to be assured and species	c)-----	-----
are to be safe with extinction. Rules framed	d)-----	-----
on some states like Uttarakhand	e)-----	-----
needs to be implemented effectively.	f)-----	-----
A Himalayas and other catchment	g)-----	-----
region should be covered with dense forests.	h)-----	-----

Q2. Rearrange the following words/phrases to form meaningful sentences. **1x4=4**

- a) called/of/rose/queen/the/flowers/is/a
.....
- b) one/the/most/of/it/in/is/the/flowers/world/popular
.....
- c) intoxicating/has/fragrance/it/and/soft/petals/sharp/thorns
.....
- d) come/in/imaginable/almost/every/roses/colour
.....

Q3. Read the following dialogue and complete these blanks given below: **1/2x4=2**

Siddarth: Ma'am I have a few doubts in construction of sentences.
Teacher: You need to practice more grammar.
Siddarth; I am practicing but can you explain certain things to me?
Teacher; Well, see me in the recess tomorrow. Don't be late.
Siddarth: I will do that ma'am. Thanks.

A student told his teacher (a)-----in construction of sentences. The teacher advised him (b)----- of grammar. The student assured her that he was practicing but asked him (c)-----certain things to him. The teacher asked him (d)-----and told him not to be late. The student promised to do so and respectfully thanked his teacher.

Q4. Fill in the blanks with the appropriate word: **1/2x6=3**

Most UFO sightings occur (a)-----night, either late in the evenings or in the early hours of the morning. They (b)-----take place on a dark moonless night when the person (c)-----alone on a country road. The eerie atmosphere is perfect (d)-----playing tricks on a person's imagination. Police and newspapers are often swamped (e)----- something strange is seen in the skies. (f)-----an explanation is given, most people are happy to accept it.

Subject: Hindi

Note: Answer the following in your Hindi notebook.

Worksheet 1

- प्रश्न 1 निम्नलिखित शब्दों का वर्ण विच्छेद कीजिए : (1)
- (क) अष्टाध्यायी (ख) ग्रामीण
- प्रश्न 2 निम्नलिखित शब्दों में उचित स्थानों पर अनुस्वार तथा अनुनासिक का प्रयोग कीजिए : (1)
- (क) कुडली (ख) ऊट (ग) श्रृगार (घ) हसना
- प्रश्न 3 निम्नलिखित शब्दों में उचित स्थानों पर नुक्ते का प्रयोग कीजिए : (1)
- (क) फ़ैसला (ख) जोर
- प्रश्न 4 निम्नलिखित शब्दों में से मूल शब्द व उपसर्ग को अलग अलग करके लिखिए : (1)
- (क) अनादर (ख) समुचित
- प्रश्न 5 निम्नलिखित शब्दों में से मूल शब्द व प्रत्यय को अलग अलग करके लिखिए : (1)
- (क) पल्लवित (ख) सजावट
- प्रश्न 6 निम्नलिखित काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए : (5)

अपना देश सँवारे हम

अपनी इस पावन धरती का आओ रूप निखारें हम

अपना देश सँवारें हम

नए सृजन के संवाहक हम

प्रगति पंथ के राही हैं

हम प्रतिबद्ध पहरूप युग के

हम सन्नद्ध सिपाही हैं

जो भी मिले चुनौती उत्तर दें उसको स्वीकारें हम

अपना देश सँवारें हम

हमें देश की रक्षा करनी है

प्रतिकूल हवाओं से

हमको है घर दवार सजाने

नई नई आशाओं से

अंधकार से जूझ देश की गली गली उजियारें हम

अपना देश सँवारें हम

- (क) देश की धरती को कैसा बताया गया है ?
- (ख) हमें अपने देश के लिए क्या क्या करना है ?
- (ग) काव्यांश में हम देशवासियों को क्या क्या बताया गया है ?
- (घ) काव्यांश में किस धरती का रूप निखारने की बात की गई है ?
- (ङ) 'प्रतिकूल' शब्द वर्ण विच्छेद कीजिए ।

प्रश्न 7 (क) 'दुःख का अधिकार' पाठ के आधार पर बताइए कि मनुष्य के जीवन में पोशाक का महत्त्व (2x4=8)

है?

(ख) नज़दीक से एवरेस्ट को देखकर लेखिका को कैसा लगा ? 'एवरेस्ट मेरी शिखर यात्रा' पाठ के आधार पर लिखिए ।

(ग) रहीम पंक के जल को क्यों धन्य मानते हैं ?

(घ) गोसाईं किसके माथे छत्र रखता है ?

प्रश्न 8 गिल्लू की किन चेष्टाओं से महादेवी वर्मा ने जान लिया कि वह मृत्यु के समीप

है? पाठ 'गिल्लू' के आधार पर लिखिए ।

(2)

प्रश्न 9 गरमी से बचने के लिए उपाय सुझाते हुए पिता और पुत्र के मध्य संवाद लिखिए ।

(4)

प्रश्न 10 किसी नामी टूथपेस्ट का विज्ञापन तैयार कीजिए ।

(4)

Worksheet 2

प्रश्न 1 निम्नलिखित शब्दों का वर्ण विच्छेद कीजिए :

(1)

(क) चंद्रमा (ख) प्रसिद्ध

प्रश्न 2 निम्नलिखित शब्दों में उचित स्थानों पर अनुस्वार तथा अनुनासिक का प्रयोग कीजिए :

(2)

(क) कपन (ख) हसमुख (ग) बासुरी (घ) भावनाए

प्रश्न 3 निम्नलिखित शब्दों में उचित स्थानों पर नुक्ते का प्रयोग कीजिए :

(1)

(क) मजबूत (ख) फलसफा

प्रश्न 4 निम्नलिखित शब्दों में से मूल शब्द व उपसर्ग को अलग अलग करके लिखिए :

(1)

(क) पराजय (ख) दुर्भाग्य

प्रश्न 5 निम्नलिखित शब्दों में से मूल शब्द व प्रत्यय को अलग अलग करके लिखिए :

(1)

(क) रसोइया (ख) सुनारिन

प्रश्न 6 निम्नलिखित काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए :

इस सड़क पर जो खून बह रहा है
 इसे सूँघकर तो देखो
 और पहचानने की कोशिश करो
 यह हिंदू का है या मुसलमान का
 किसी सिक्ख या ईसाई का
 किसी बहन का या भाई का
 सड़क पर इधर उधर पड़े
 पत्थरों के बीच में दबे
 टिफ़िन कैरियर से
 रोटी की जो गंध आ रही है
 वह किस जाति की है
 हाँ मैं बता सकता हूँ,
 यह खून उस आदमी का है
 जिसके टिफ़िन में बंद
 रोटी की गंध
 उस जाति की है
 जो घर और दफ़्तर के बीच
 साइकिल चलाती है
 और जिसके सपनों की उम्र
 फ़इलों में बीत जाती है ।

-
- (क) इस कविता में कवि क्या चित्रित कर रहा है ?
- (ख) सड़क पर किस का खून बह रहा है ?
- (ग) काव्यांश में आए अंग्रेजी शब्दों को छाँटकर लिखिए ।
- (घ) सड़क पर क्या बह रहा है और उसे सूँघकर कवि ने क्या पहचानने की कोशिश करने को कहा है ?
- (ङ) कविता का उचित शीर्षक लिखिए ।

प्रश्न 7 (क) 'दुख का अधिकार' पाठ के आधार पर बताइए कि मनुष्य के जीवन में पोशाक का क्या महत्त्व है ?

(2x4=8)

(ख) शिखर पर चढ़कर लेखिका ने क्या-क्या किया ? 'एवरेस्ट मेरी शिखर यात्रा' पाठ आधार पर लिखिए ।

(ग) हमें किसकी साधना करनी चाहिए और क्यों ?

(घ) प्रभु के निडर स्वभाव का पता किस बात से चलता है ?

प्रश्न 8 लेखिका महादेवी वर्मा का ध्यान आकृष्ट करने के लिए गिल्लू क्या-क्या करता था ? पाठ 'गिल्लू' के आधार पर

लिखिए । (2)

प्रश्न 9 आपका छोटा भाई रवि छात्रावास में रहने गया है , वहाँ उसका मन नहीं लग रहा है , वह वापस घर आना चाहता है , जीवन में त्याग का महत्त्व समझाते हुए व उसका मार्गदर्शन करते हुए एक पत्र लिखिए । (4)

प्रश्न 10 नीचे दिए गए चित्र को देखकर इसका वर्णन 25 से 30 शब्दों में कीजिए । (4)



Worksheet 3

प्रश्न 1 निम्नलिखित शब्दों का वर्ण - विच्छेद कीजिए : (1)

(क) उद्यम (ख) विडंबना

प्रश्न 2 निम्नलिखित शब्दों में उचित स्थानों पर अनुनासिक व अनुस्वार लगाइए : (2)

(क) दिनाक (ख) नीद (ग) माग (घ) महगाई

प्रश्न 3 निम्नलिखित शब्दों में उचित स्थानों पर नुक्ता लगाइए : (2)

(क) गैरजरूरी (ख) जोर

प्रश्न 4 निम्नलिखित शब्दों से मूल शब्द व उपसर्ग अलग करके लिखिए : (1)

(क) उत्थान (ख) सहमति

प्रश्न 5 निम्नलिखित शब्दों से मूल शब्द व प्रत्यय अलग करके लिखिए : (1)

(क) भौगोलिक (ख) सहमति

प्रश्न 6 निम्नलिखित काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए : (5)

प्रकृति नहीं डरकर झुकती है

कभी भाग्य के बल से ,

सदा हारती वह मनुष्य के

उदयम से श्रम जल से ।

ब्रह्मा का अभिलेख पढ़ा

करते निरुदयमी प्राणी ,

धोते वीर कुअंक भाल का

बहा भूर्वो से पानी

भाग्यवाद आवरण पाप का

और शास्त्र शोषण का ,

जिससे रखता दबा एक जन

भाग दूसरे जन का ।

पूछो किसी भाग्यवादी से ,

यदि विधि अंक प्रबल है ,

वर्यो न उठा लेता निज संचित

कौष भाग्य के बल से ?

(क) कभी भाग्य के बल से डर कर कौन नहीं झुकता है ?

(ख) प्रकृति किसके उदयम तथा श्रमजल से हारती है ?

(ग) कवि ने भाग्यवादी ने किसकी प्रबलता पूछने के बारे में कहा है ?

(घ) 'शास्त्र' को काव्यांश में किसका प्रतीक माना है ?

(ङ) 'निरुदयमी' शब्द का वर्ण विच्छेद कीजिए ।

प्रश्न 7 निम्नलिखित प्रश्नों के उत्तर दीजिए : (8)

(क) 'दुःख का अधिकार' पाठ के आधार पर बताइए कि मनुष्य के जीवन में पोशाक का क्या महत्त्व है ?

(ख) नज़दीक से एवरेस्ट को देखकर लेखिका को कैसा लगा ? 'एवरेस्ट मेरी शिखर यात्रा' पाठ के आधार पर लिखिए ।

(ग) रहीम पंक के जल को क्यों धन्य मानते हैं ?

(घ) गोसाईं किसके माथे छत्र रखता है ?

प्रश्न 8 गिल्लू की किन चेष्टाओं से महादेवी वर्मा ने जान लिया कि वह मृत्यु के समीप है ? पाठ 'गिल्लू' के आधार पर लिखिए । (2)

प्रश्न 9 काले धन को विदेशों में जमा करने की समस्या पर दो नागरिकों के मध्य संवाद लिखिए । (4)

प्रश्न 10 अपने बड़े भाई को पत्र लिखकर बताइए कि उनकी शिक्षा किस प्रकार आपके जिवन में पग पग पर काम आ रही है । (4)

Worksheet 4

प्रश्न 1 निम्नलिखित शब्दों का वर्ण विच्छेद कीजिए : (1)

(क) रामायण (ख) नीलकंठ

प्रश्न 2 निम्नलिखित शब्दों में उचित स्थानों पर अनुस्वार तथा अनुनासिक का प्रयोग कीजिए : (2)

(क) मजन (ख) चचल (ग) सब्जिया (घ) गेहू

प्रश्न 3 निम्नलिखित शब्दों में उचित स्थानों पर नुक्ते का प्रयोग कीजिए :

(क) फारसी (ख) गजल

प्रश्न 4 निम्नलिखित शब्दों में से मूल शब्द व उपसर्ग को अलग अलग करके लिखिए : (1)

(क) संयोग (ख) अत्यंत

प्रश्न 5 निम्नलिखित शब्दों में से मूल शब्द व प्रत्यय को अलग अलग करके लिखिए : (1)

(क) पौराणिक (ख) आनंदित

प्रश्न 6 निम्नलिखित काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए : (5)

माँ !

यह ऐसा शब्द कि जिसमें स्नेह भरा ,
जिसमें निर्मल अपनत्व छिपा
जो नहीं ईर्ष्या , द्वेष , दंभ या छल से परिचित,
करुणा का सागर जिसमें हिल्लोर ले रहा ,
और तरलता ऐसी जो बहती ही जाए !

माँ!

जो खुद सहती ही रहती
सहती है इसलिए कि हम बढ़ते ही जाएँ
हमें अभावों का बिल्कुल भी बोध नहीं हो!

माँ!

मानव की मूर्ति अनोखी
दया , क्षमा , ममता , करुणा का अद्भुत संगम !
अगर स्वयं में हम माँ को प्रतिबिंबित कर लें -
यानी कि हम में अगर सभी गुण माँ के आएँ,

हम सचमुच आदर्श बनेंगे!

तब मनुष्य की पशुता हमसे दूर हटेगी!

माँ का है मानवता पर एहसान -

जिसे हम भूल न जाएँ

माँ का है प्रतिदिन नहीं ,

हम उन्नयन न होंगे ।

केवल यह संकल्प हमें बल दे पाएगा -

जननी जन्मभूमिश्च स्वर्गादपि गरीयसी',

सत्य यही है !

(क) माँ कौन - कौन से गुणों से संपन्न है ?

(ख) मनुष्य की पशुता कब हटेगी ?

(ग) हमें कौन सा संकल्प बल दे पाएगा ?

(घ) काव्यांश का उचित शीर्षक लिखिए ?

(ङ) 'प्रतिबिम्बित' शब्द का वर्ण विच्छेद कीजिए ।

प्रश्न 7(क) शोक करने गम मनाने के लिए भी सहूलियत चाहिए और दुखी होने का भी एक अधिकार होता है । 'दुख का अधिकार' पाठ के आधार पर स्पष्ट कीजिए । (8)

(ख) सम्मिलित अभियान में सहयोग एवं सहायता की भावना का परिचय बर्सेद्री पाल के किस कार्य से मिलता है ?

(ग) 'रैदास' ने अपने स्वामी को किन - किन नामों से पुकारा है ?

(घ) कवि रहीम ने सागर के अपार जल से कौन से जल को धन्य कहा है ?

प्रश्न 8 गिल्लू किन अर्थों में परिचारिका की भूमिका निभा रहा था? पाठ 'गिल्लू' के आधार पर लिखिए । (2)

प्रश्न 9 अपनी माताजी को छात्रावास से उनके जन्मदिवस पर बधाई पत्र लिखिए । (4)

प्रश्न 10 दिए गए संकेत बिंदुओं के आधार पर लगभग 60 से 80 शब्दों का एक सुंदर अनुच्छेद लिखिए - (4)

विषय : युवा पीढ़ी के कर्तव्य

संकेत बिंदु : भूमिका

- युवा देश का भविष्य
- युवाओं के कर्तव्य
- युवाओं के अधिकार
- निष्कर्ष

Subject- Mathematics

Chapters(Number Systems, Polynomials, Coordinate Geometry & Euclid Geometry)

Note: Answer the following questions in your notebook:

- Que.1) Answer the following questions: (1× 4)
- (i) What is the perpendicular distance of the point P(4,6) from x-axis?
 - (ii) The point (a,b) lies in the fourth quadrant.Which of a or b is greater?
 - (iii) If the coordinates of two points are P (-2, 3) and Q(-3,5), then find Abscissa of P – Abscissa of Q
 - (iv) In which quadrant do the point (-2 ,5) lie?
- Que.2) Prove that : $(2^{30} + 2^{29} + 2^{28}) / (2^{31} + 2^{30} - 2^{29}) = 7/10$ (2)
- Que.3) Give an example of two irrational numbers whose : (2)
- A) Product is – (a) a rational number (b) an irrational number.
 - B) Quotient is – (a) a rational number (b) an irrational number
- Que.4) Find three irrational numbers between : (2 × 2)
- (i) 5/7 and 9/11
 - (ii) 1/11 and 3/11
- Que.5) Express the following in the form $\frac{p}{q}$: (2 × 3)
- I) 1.2353535.....
 - II) 1.4191919...
 - III) 18.484848...
- Que.6) Find the square root of following numbers (correct up to two places of decimals) by long division method: (2 × 3)
- a) $\sqrt{7}$ b) $\sqrt{17}$ c) $\sqrt{6.32}$
- Que.7) Plot the following points on the graph and check whether they are collinear or not:
- (i) (2,3) , (3,2) , (1, -5) (ii) (-3 ,3) , (-3 ,5) , (1 , -1) (2× 2)
- Que .8) 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 form a square. (2)
- Que.9) Expand the following using suitable identities : (2 ×4)
- (i) $(3x - 2y + 4z)^2$
 - (ii) $(4 - \frac{1}{3x})^3$
 - (iii) $(\frac{1}{x} + \frac{y}{3})^3$
 - (iv) $(-4a + b - 2c)^2$
- Que.10) State Euclid's fifth axiom. (2)

Que.11) Prove that two distinct lines cannot have more than one point in common. (2)

Que.12) Solve the equation $x - 15 = 25$ and state Euclid's axiom used here (2)

Que.13) Show that :

$$(x^{a-b})^{a+b} \cdot (x^{b-c})^{b+c} \cdot (x^{c-a})^{c+a} = 1 \quad (2)$$

Que.14) Find the decimal expansion of : (i) $\frac{2}{11}$ (ii) $\sqrt{3}$ (3)

Que.15) Find the value of m so that $2x - 1$ is a factor of $8x^4 + 4x^3 - 16x^2 + 10x + m$. (3)

Que.16) If $x = 3 + 2\sqrt{2}$, find whether $x + \frac{1}{x}$ is a rational or irrational number. (3)

Que.17) Rationalise the denominator of the following : (3)

$$(i) \frac{30}{5\sqrt{3}-3\sqrt{5}} \quad (ii) \frac{4}{\sqrt{7}-\sqrt{3}}$$

Que.18.) Simplify the following using laws of exponents: (3)

$$a) (729)^{-1/9} \quad b) (64)^{-2/3} \times (27)^{-2/3}$$

Que.19) The polynomial $p(x) = kx^3 + 9x^2 + 4x - 8$ when divided by $(x + 3)$ leaves a remainder $10(1-k)$. Find the value of k. (3)

Que.20) Factorise the following cubic polynomials using the factor theorem : (3 × 3)

$$a) x^3 + 13x^2 + 32x + 20$$

$$b) x^3 - 4x^2 + x + 6$$

$$c) x^3 + x^2 - 4x - 4$$

Que.21) Give the relation between a and b if $(x - 1)$ and $(x + 3)$ are the factors of polynomial

$$p(x) = x^3 - ax^2 - 13x + b \quad (3)$$

Que.22) Factorise the following : (3 × 5)

$$(i) (2x - y)^6 - (2x + y)^6 \quad (ii) 2y^3 + y^2 - 2y - 1$$

$$(ii) 8x^3y^3 + 27z^3 \quad (iv) (x + 1)^2 - (y - 1)^2$$

$$(v) a^6 - b^6$$

Que.23) If $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$, find the value of a and b. (3)

Que.24) If $3x + y + z = 0$ then show that $27x^3 + y^3 + z^3 = 9xyz$ (3)

Que.25) If $x^2 + \frac{1}{x^2} = 38$, find the value of $(x^3 - 1/x^3)$ (4)

Que.26) Plot the points A(2,0), B(2,2), C(0,2) and draw the line segments OA, AB, BC & OC. What do you obtain? Find its area. (3)

Que.27) If $x + \frac{1}{x} = \sqrt{7}$, find the value of $x^3 + 1/x^3$ (3)

Que.28) Find the remainder when $3y^3 - 4y^2 + 7y + 5$ is divided by $(y - 3)$ and $(y + 3)$ (3)

Que.29) If $p(x) = x^2 - 4x + 3$, evaluate $p(2) - p(-1) + p(\frac{1}{2})$ (3)

Que.30) If $a = 8 + 3\sqrt{7}$ and $b = \frac{1}{a}$, find the value of $a^2 + b^2$.

Que.31) Write the difference between terms “Axiom” and “Postulate” .Write any five Euclid axioms.

(3)

Que.32) Given a triangle ABC, in which $AB = AC$. Points P & Q are marked on sides AB and AC respectively such that $BP = CQ$. Draw the figure and show that $AP = CQ$. Also mention the axiom used here.

(3)

Que.33) Express $1.\overline{32} + 0.\overline{35}$ in the form of p/q where p and q are integers and q is non-zero. (4)

Que.34) Plot the points A(2,3) , B(2,1) , C(0,1) , D(0,3). Join the points and identify the figure obtained .

Find the area and perimeter of this figure.

(4)

Que.35) Represent $\sqrt{3}$ & $\sqrt{6.2}$ on number lines and give their justifications. (2+3)

ACTIVITIES

- 1) Write contribution of Euclid in the field of mathematics. Give examples from real life to explain Euclid axioms.
- 2) Draw a plan of seating arrangement of your class-room on the graph paper.

Note :

- 1) **Make your activities attractive and colourful pasted with pictures , images, photos etc**
- 2) **Revise all the chapters covered from N.C.E.R.T.**

Subject: Science

Objective:

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

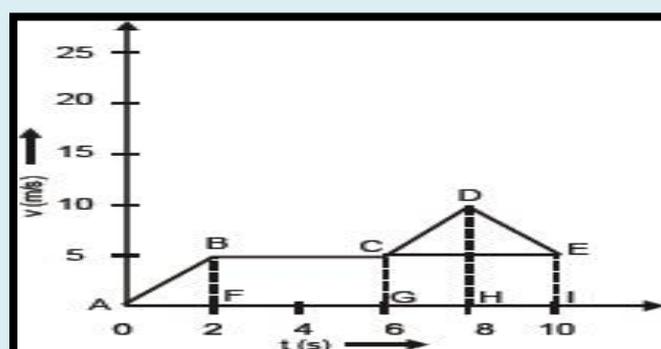
Instructions:

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

PHYSICS

Q1. A ball is thrown upwards and it goes to the height 100 m and comes down
i) What is the net displacement? (2)
ii) What is the net distance?

Q2. Find the total displacement of the body from the following graph: (2)



Q3. An airplane accelerates down a runway at 3.20 m/s^2 for 32.8 s until it finally lifts off the ground. (2)
Determine the distance travelled before take-off.

Q4. A car is travelling at 20 m/s along a road. A child runs out onto the road 50 m ahead and the driver steps on the brake pedal. What must the car's deceleration be if the car is to stop just before it reaches the child? (2)

Q5. If an object is thrown vertically upwards with a speed of 49 m/s . How long does it take to complete the upwards journey? What is the maximum height achieved? (2)

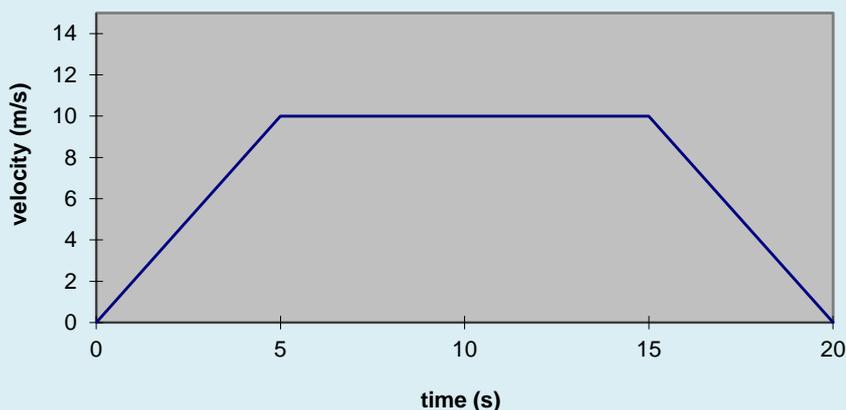
Q6. A bullet leaves a rifle with a muzzle velocity of 521 m/s . While accelerating through the barrel of the rifle, the bullet moves a distance of 0.840 m . Determine the acceleration of the bullet (assume a uniform acceleration). (2)

Q7. Match the column (2.5)

Column A	Column B
Speed	Scalar
Distance	Vector
Displacement	
Acceleration	
Velocity	

Q8. A Truck starting from rest moves with a uniform acceleration of 0.2 m/s^2 for 2 minutes. Find (3)
(a) the speed acquired
(b) the distance travelled.

Q9. The diagram shows a velocity-time graph describing the motion of a car. (3)



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

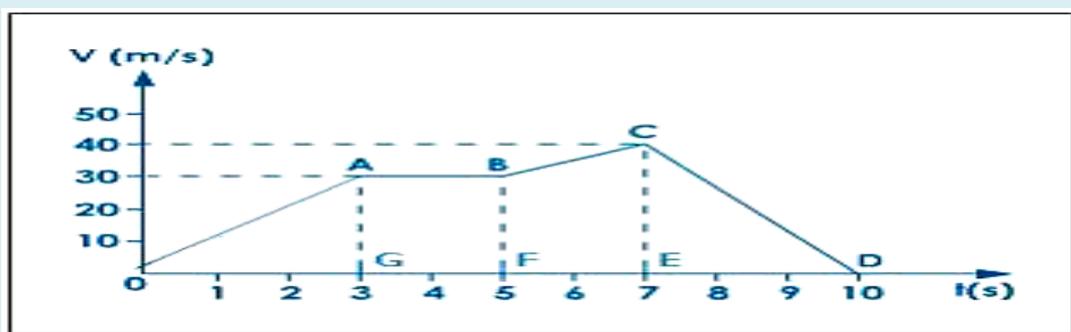
Q10. What do you infer if:

(3)

1	Distance –time graph is straight line	
2	Velocity –time graph is curved	
3	Displacement –time is zig zag	

Q11. Figure shows the velocity time graph of the motion of a body.

(3)



- (a) State the interval during which the body is moving with a uniform velocity
- (b) Calculate the acceleration in the first 3 seconds.
- (c) Calculate the distance travelled by the body in 5seconds.

Q12. A particle is moving in a circle of diameter 20m. What is its distance and as per the table given below

(4)

S.no	Rounds	Displacement	Distance
1	1		
2	1.5		
3	2		
4	2.5		

Activity: Plot a distance time graph of the data collected by going on a road trip.

1. Plan a road trip.
2. Note the distance travelled after every 2 minute.
3. Plot the distance time graph for the same.
4. State the type of motion depicted by the shape of the graph.

CHEMISTRY

Section A

- Q1 The chemistry laboratory can be fascinating, as well as dangerous place. Practical chemistry offers the students the opportunity to discover the true joys of experimentation, with instantaneous and interesting results. At the same time, the chemicals, reagents and equipment in the chemistry laboratory need to be handled carefully. Collect information about the general guidelines for safety in the chemistry laboratory and prepare a display chart. (5)
- Q2. Collect information and pictures about the following apparatus and reagents used in the chemistry laboratory: test tube, pipette, boiling tube, glass rod, gas jar, beaker, flat-bottomed flask, watch glass, round-bottomed flask, conical flask, china dish, test tube stand, tripod stand, bunsen burner, spirit lamp, wire gauze, test tube holder and write in the laboratory file. (25)
- Q3. Collect information about the latent heat of fusion and latent heat of vaporization of five substances each and write in your notebook. (10)

Section B

- Q4. Define one atmosphere and one Pascal. State the relationship between these two units of measuring pressure. (2)
- Q5. State your observations when a few drops of nail polish remover are accidentally fall in your palm. Explain. (2)
- Q6. What kind of clothes keeps us cool and why? (2)
- Q7. Take a glass containing ice-cold water. What do you observe on the outer surface of the glass . Explain your observations. (2)
- Q8. Do solids diffuse into one another? Justify your answer with the help of an activity. (2)
- Q9. Define the three units of temperatures i.e, Kelvin, Fahrenheit and Celsius. What is the relationship between them. (2)
- Q10. Convert the following temperatures to Celsius scale: (2)
- (i) 303 K (ii) 333 K
- Q11. Why is butter wrapped in a wet cloth during summers when no refrigerator is available? (2)
- Q12. Why do you feel uncomfortable when humidity is very high? (2)
- Q13. Investigatory Project: Collect information and pictures of the fourth and fifth states of matter (Plasma state and Bose-Einstein Condensate respectively) and present a report on A4 sheets. (6 +6)

BIOLOGY

- Q1. What is hybridisation in plants? Mention any two desired characters for which it is done. (2)
- Q2. Write four postulates of the cell theory. (2)
- Q3. Though fertilisers increase crop production, they are to be used in limited amounts. Why? (2)
- Q4. State the advantages of inter cropping and crop rotation over single cropping. (2)
- Q5. You have just bought a tropical fish for your freshwater aquarium. Unfortunately, you do not realize it is a saltwater fish. Using your knowledge of osmosis, explain why this fish will not survive in your aquarium. (2)
- Q6. Compare the use of manures and fertilisers in maintaining soil fertility. (2)
- Q7. Differentiate between prokaryotic cell and eukaryotic cell. (3)
- Q8. Define osmosis. Explain different types of osmosis with appropriate examples. (3)
- Q9. Explain the desirable traits obtained after cross breeding indigenous and exotic breed of poultry bird. (3)
- Q10. Define the following: (3)
- i) Vermicomposting
 - ii) Green Manure
 - iii) Fumigation

Q.11 Complete the table given below: (5)

Cell Components	Description	Function	Present in plants, animals or both
Cell Wall			
Plasma Membrane			
Nucleus			
Plastids			
Endoplasmic Reticulum			
Golgi Apparatus			
Ribosomes			
Mitochondria			
Lysosomes			

Cytoplasm			
-----------	--	--	--

Activity

Demonstrate osmosis in raisins immersed in a hypotonic solution (water + sugar). Identify the type of osmosis and calculate the mass percentage of water imbibed by raisins.

Subject: Social Science

Economics

I Activity:

Make a file on the activities performed in the village Palampur. 5

Guidelines:

- a) The total length of the project report should not be more than 15 written pages [A-4 size].
- b) The project report must be handwritten and credit will be awarded to original drawings, illustrations and creative use of the materials.
- c) The students should continuously discuss with the teacher and prepare a draft before finalizing the report.
- d) The project will be presented neatly bound in a simple folder.
- e) The project will be developed and presented in this order-
- f) Cover page- Showing title, student information, school and year.
- g) List of contents with page numbers.

II Answer the following questions in your notebook:

1. What are the main factors for production of goods and services? 2
2. What is the Green Revolution? Explain some of its features. 2
3. State the main reasons why farmers are able to grow three different crops in a year in Palampur. 3
4. How are the surplus farm products sold by the farmers? 3
5. Write a short note on the non-farm activities that are practiced in village Palampur. 3
6. How is multiple farming practiced in village Palampur ? Explain. 3
7. Modern farming methods require more inputs which are manufactured in industry. 4

Do you agree?

History

I Activity :Make a Travel Brochure of France. 5

Guidelines : Can draw pictures, use photographs, add maps, and write details about what we see or learn.

II Answer the following questions in your notebook:

1. What led to the Subsistence crisis in France? 2
2. Explain any three features of the Constitution of France, which was drafted in 1791. 2
3. Explain the organization of the French society. 3
4. Who was Napoleon Bonaparte? Why was he called a liberator? 3
5. What was a Directory? Why was it removed from France? 3
6. What was the role of the Philosophers in the French Revolution? Explain. 3
7. Write a short note on the Jacobin Club. 2
8. What is directory? 2

Political Science

I Answer the following questions in your notebook:

1. "Democracy is a form of government in which the rulers are elected by the people." In the light of statement write any two features of democracy. 1
2. Who was Nelson Mandela? 1
3. How democracy can enhance the dignity of the citizens? 1
4. Why is democracy preferred? Give any three reasons. 1.5
5. Democracy allows people to correct their mistakes. How is this possible? 1.5
6. Give three arguments against democracy. 1.5
7. How democracy improves the quality of decision making? 1.5
8. State the reasons for not calling government under General Musharraf in Pakistan a democracy. 3
9. "Although having a democratic system, Mexico is not practicing democracy". Enumerate. 3
10. In spite of being elected, the government of President Robert Mugabe of Zimbabwe became autocratic. Describe the steps taken by him to remain in power. 5

II Activity:

Prepare a report on 'Karnataka Legislative Assembly Election, 2018.'

[Guidelines: Background, Schedule, Controversies, Voter ID fraud case, Election campaign, Exit Polls, Result]

Geography

I Activity:

5

Guidelines

- a) The total length of the project report should not be more than 15 written pages [A-4 size].
- b) The project report must be handwritten and credit will be awarded to original drawings, illustrations and creative use of the materials.

- c) The students should continuously discuss with the teacher and prepare a draft before finalizing the report.
- d) The project will be presented neatly bound in a simple folder.
- e) The project will be developed and presented in this order-
- f) Cover page- Showing title, student information, school and year.
- g) List of content with page numbers.
- h) Acknowledgement [acknowledging the institutions, offices and libraries visited and persons who have helped]
- i) Project overview- Purpose, aim, methodology and experiences while doing the project.
- j) Summary and Conclusions based on findings.
- k) Planning and activities to be done during the project [if any] giving a calendar of activities.
- l) Bibliography- Should have the title, pages referred, author, publisher, year of publication and if a website with specific website link which has been used.
- m) All the photographs and sketches should be labelled and acknowledged.
- n) Teacher's evaluation report.

Topic/ Themes for Project work on Disaster Management

Mitigation strategies adopted for any one of the following hazard:

- 1. Earthquake
- 2. Floods
- 3. Cyclone
- 4. Landslide
- 5. Drought
- 6. Weapons of mass destruction
or

Prepare a Guide book on 'A Safer School'

II Answer the following questions in your notebook:

- Q1. How has land routes contributed in the exchange of ideas and commodities since ancient times? 2
- Q2. Differentiate between the following:- (2x4=8)
 - (a) Convergent boundary and Divergent boundary
 - (b) Potential resources and Developed resources
 - (c) Western Ghats and Eastern Ghats
 - (d) Bhangar and Khadar
- Q3. Describe how the Himalayas were formed. 3
- Q4. Name the three longitudinal divisions of Himalayas. Write any two characteristic features of each division. 5
- Q5. What is the longitudinal extent of India? State its implications. 2