



## HOLIDAY HOMEWORK 2020-21

### CLASS: IX

This year, your holiday homework is a fun mix of all the aspects of learning. It has been designed to ensure that you enjoy and learn at the same time. Special attention has been taken to ensure that you use your creativity, your innovative ideas and your imagination to shape your holiday homework into fantastic 'creations'. So enjoy your holidays spending quality times with your near and dear ones and devote sometimes to learn new things.

#### **General Instructions:**

- Holiday Homework of all subjects to be done in **Project files/Digital form**
- Students are instructed to do all the questions given as you will be allotted internal assessment marks for the same.
- To upload the Holiday Homework, make different folders for each subject on your Google drive. For eg put English homework in English folder and other subjects respectively. Send the link through Google form shared by the teachers. You may also submit the PPT in the Google classroom of your respective subject teachers or you keep it in a pen drive and hand it over to the teacher when school reopens.
- Credit will be awarded to original photographs/ drawings, illustrations, innovative ideas and creative use of materials.
- Holiday Homework needs to be submitted on 6<sup>th</sup> July 2020.
- Holiday Homework needs to be developed and presented in this order:
  - a) Cover page / First slide showing title, student information (Name, class, section, roll no, school and academic year) and parent's signature./ Parents Name
  - b) Index -List of contents with page numbers.
  - c) The last page should have Bibliography/ Sources of information from where you have collected your information.

### **ENGLISH**

- Q1) Prepare a **PPT** on the following chapters from your textbook- **Beehive: (Max. 10 slides)**
- a) A Truly Beautiful Mind
  - b) On Killing a Tree
  - c) My Childhood
- Q2) Write a **small paragraph** comparing and contrasting between 'the virtual' and 'the real classroom'. Refer to the chapter '**The Fun They Had**'. (Word limit **200-250**)
- Q3) Read **any one** of the following books and do as suggested on the basis of your reading:
- a) Little Women- by Louisa M Alcott
  - b) Wuthering Heights- by Emily Bronte
    - Prepare a **book cover** on it. Illustrate it beautifully.
    - Also prepare an oral class presentation of 2 minutes on it.
    - Write a critical appreciation of the novel including the following points:
      - i) Introduction to the author
      - ii) Story in brief
      - iii) Your favourite character
      - iv) Reason for liking this book and the lesson learnt from it.

Link for G forms

<https://forms.gle/cWoDDamSBtwdsA688>

Link for uploading HHW on G Drive

<https://forms.gle/5cswkkbcRAkLmFEq7>

**MATHEMATICS**

GENERAL INSTRUCTIONS FOR MATHEMATICS

HOLIDAY ASSIGNMENT HAS BEEN DIVIDED INTO TWO PARTS.

**Part A—Project : Crossword puzzle**

Design a crossword puzzle of minimum 20 mathematical words ( including across and down)

- Using various free puzzle making softwares available on the internet.
- OR
- Manually on A4 type sheet or a drawing sheet

**Part B—Contains three parts:**

I-OBJECTIVE QUESTIONS

II- APTITUDE QUESTIONS

III-DATA INTERPRETATION

<u>S.NO</u>	<u>TASK</u>	<u>LINK FOR THE GOOGLE FORM</u>
1.	OBJECTIVE QUESTIONS	<a href="https://forms.gle/G6mF9ew52td36nGE9">https://forms.gle/G6mF9ew52td36nGE9</a>
2.	APTITUDE QUESTIONS LINK	<a href="https://forms.gle/jkQb6xp4R6PvS4pZ7">https://forms.gle/jkQb6xp4R6PvS4pZ7</a>
3.	DATA INTERPRETATION LINK	<a href="https://forms.gle/5KgqDRrMvsqwwiQs6">https://forms.gle/5KgqDRrMvsqwwiQs6</a>

# AHLCON PUBLIC SCHOOL

SESSION :2020-21

CLASS :IX

SUBJECT : MATHEMATICS

ASSIGNMENT 1: OBJECTIVE QUESTIONS

\* Required

1. Name \*

---

2. Class & Section \*

*Mark only one oval.*

☐ IX A

☐ IX B

☐ IX C

☐ IX D

☐ IX E

☐ New Admission

3. Admission Number

---

4. Question 1:

2 points

Decimal representation of  $\sqrt{23}$  upto three decimal places is:

---

5. Question 2:

1 point

If  $\sqrt{2} = 1.414$ , then the value of  $\sqrt{8} + \sqrt{50}$  is :

---

6. Question 3:

1 point

If  $a = 2 + \sqrt{3}$ , then the value of  $\frac{1}{a}$  is :

Mark only one oval.

$$2 + \sqrt{3}$$

☐ A

$$2 - \sqrt{3}$$

☐ B

$$\sqrt{3} - 2$$

☐ C

$$1$$

☐ D

7. Question 4:

1 point

$\overline{2.35}$  is a/an \_\_\_\_\_ number.

Mark only one oval.

☐ rational

☐ irrational

8. Question 5:

2 points

If  $(\sqrt{3})^x = 3^7$ , then the value of  $x$  is:

\_\_\_\_\_

9. Question 6:

2 points

The value of  $0.\overline{22} + 0.\overline{23}$  is :  
Mark only one oval.

0.45

☐ A

$0.\overline{45}$

☐ B

$\frac{45}{99}$

☐ C

Both B and C

☐ D

10. Question 7:

2 points

$$\frac{(32)^{0.2} + (81)^{0.25}}{(256)^{0.5} - (121)^{0.5}} =$$

11. Question 8: The cube root of -125 divided by square root of 25 gives: 1 point

\_\_\_\_\_

12. Question 9: 2 points

The value of  $x$  ,if  $5^{x-3} \cdot 3^{2x-8} = 225$  is:

\_\_\_\_\_

13. Question 10: 2 points

After rationalising the denominator of  $\frac{3\sqrt{2}}{3\sqrt{2}-2\sqrt{3}}$ , we get the denominator as:

\_\_\_\_\_

14. Question 11: Write the answer as a whole number. 1 point

The value of  $(256)^{0.16} \times (256)^{0.09}$  is:

\_\_\_\_\_

15. Question 12: 2 points

*If  $5^{2x-1} - 25^{x-1} = 2500$ , then the value of  $x$  is*

\_\_\_\_\_

16. Qestion 13: Write the answer as a whole number. 1 point

*The value of  $a^{x-y} \cdot a^{y-z} \cdot a^{z-x}$  is*

\_\_\_\_\_

17.    Questio 14: Write the answer as a whole number. The value of : 1 point

$$\frac{64^{\frac{a}{6}}}{4^a} \times \frac{2^{2a+1}}{2^{a-1}} is$$

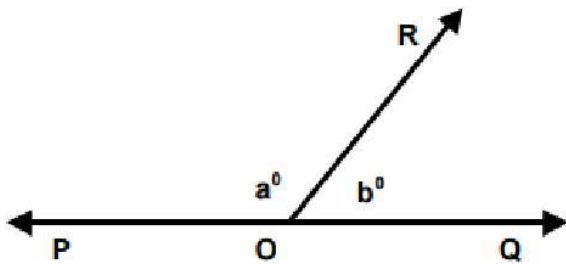
18.    Question 15: Irrational numbers are not closed under: 1 point

*Mark only one oval.*

- ☐ Addition
- ☐ Subtraction
- ☐ Multiplication
- ☐ Division
- ☐ All of the above



19. Question 16: In the figure,  $b$  exceeds one-third of a right angle by  $a$ . The values of  $a$  and  $b$  are: 2 points



Mark only one oval.

95°, 85°

☐ A

105°, 75°

☐ B

60°, 120°

☐ C

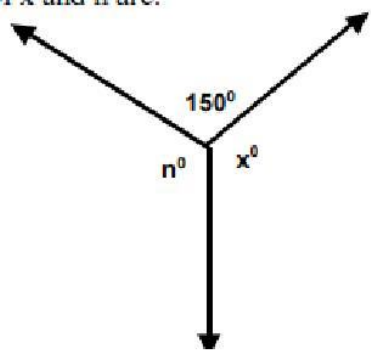
65°, 115°

☐ D

20. Question 17:

2 points

In fig.,  $n - x = 3^\circ$  then values of  $x$  and  $n$  are:



Mark only one oval.

125°, 128°

☐ A

126°, 129°

☐ B

150°, 153°

☐ C

103.5°, 106.5°

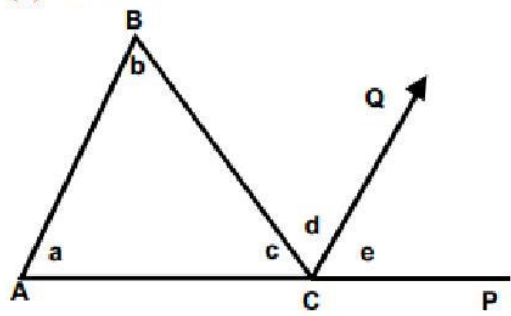
☐ D

21. Question 18:

1 point

In fig, the sum of  $\angle a$  and  $\angle b$  is:

- (a)  $\angle c + \angle d$                       (b)  $\angle d + \angle e$   
(c)  $\angle b + \angle c$                       (d)  $\angle a + \angle c$



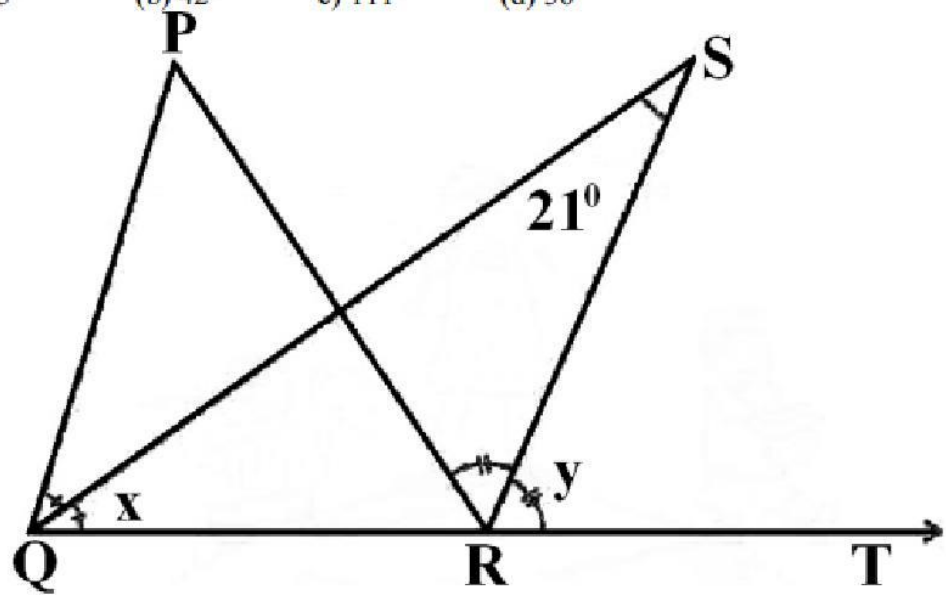
Mark only one oval.

- ☐ a  
☐ b  
☐ c  
☐ d

22. Question 19:

2 points

In the given figure, measure of  $\angle QPR$  is  
(a)  $10.5^\circ$  (b)  $42^\circ$  (c)  $111^\circ$  (d)  $50^\circ$



Mark only one oval.

- ☐ a
- ☐ b
- ☐ c
- ☐ d

23. Question 20: In a triangle, exterior angle is always greater than:

1 point

Mark only one oval.

- ☐ third angle
- ☐ interior opposite angle
- ☐ right angle
- ☐ adjacent angle

This content is neither created nor endorsed by Google.

# AHLCON PUBLIC SCHOOL

SESSION :2020-21

CLASS :IX

SUBJECT: MATHEMATICS

ASSIGNMENT 2: APTITUDE QUESTIONS

\* Required

1. NAME OF STUDENT \*

---

2. Class & Section \*

Mark only one oval.

- ☐ IX A
- ☐ IX B
- ☐ IX C
- ☐ IX D
- ☐ IX E
- ☐ New Admission

3. Admission Number

---

4. Q1 In a class, Ajay is 15th in rank from the top and 21st from the bottom. How many students are there in the class ? 1 point

Mark only one oval.

- ☐ 34
- ☐ 35
- ☐ 36
- ☐ 37

5. Q2 'Match' is related to 'win' in the same way as 'Examination' is related to ..... 1 point

Mark only one oval.

- ☐ write
- ☐ prepare
- ☐ success
- ☐ appear

6. Q3 If 4 2 5 72 stands for ' WORLD ' then 7252 stands for ..... 1 point

Mark only one oval.

- ☐ DOLR
- ☐ ROLD
- ☐ LORD
- ☐ OLRD

7. Q4 In a certain code RATIONAL is written as RTANIOLA. How would TRIBAL be written in that code? 1 point

Mark only one oval.

- ☐ TRIALB
- ☐ TIRALB
- ☐ TIRLBA
- ☐ TIRABL

8. Q5 1 point

If  $-$  means  $\times$ ,  $\times$  means  $+$ ,  $+$  means  $\div$  and  $\div$  means  $-$ , then find the value of  $14 - 10 \times 4 \div 16 + 8$  is?  
Mark only one oval.

- ☐ 22.5
- ☐ 194
- ☐ 121
- ☐ 142

9. Q6 Choose the group of letters which is different from others 1 point

Mark only one oval.

- ☐ BCD
- ☐ KMN
- ☐ QRS
- ☐ GHI

10. Q7 Which of the following will come next in the series SHG, RIF, QJE, PKD,.....

1 point

*Mark only one oval.*

- ☐ OMC
- ☐ OLC
- ☐ OLB
- ☐ OKC

11. Q8 Complete the given series 2, 7, 22, 67, ....., 607

1 point

*Mark only one oval.*

- ☐ 200
- ☐ 201
- ☐ 202
- ☐ 203

12. Q9 Find the wrong number in the given series 10, 14, 28, 32, 64, 68, 132

1 point

*Mark only one oval.*

- ☐ 32
- ☐ 68
- ☐ 64
- ☐ 132



13. Q10 If  $3+9=31$ ,  $15+12=45$ ,  $18+9=36$ , then  $12+27$  is?

1 point

*Mark only one oval.*

☐ 94

☐ 14

☐ 49

☐ 53

---

This content is neither created nor endorsed by Google.

Google Forms

# AHLCON PUBLIC SCHOOL

SESSION :2020-21

CLASS :IX

SUBJECT : MATHEMATICS

ASSIGNMENT 3 :DATA INTERPRETATION

\* Required

1. Name \*

---

2. Class & Section \*

*Mark only one oval.*

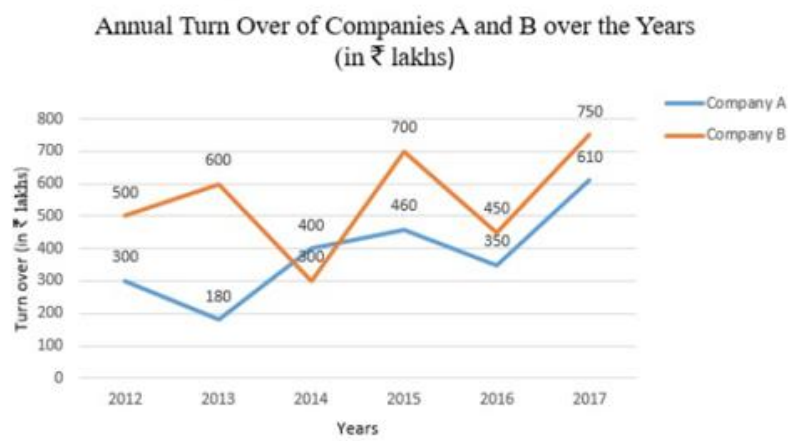
- ☐ IX A
- ☐ IX B
- ☐ IX C
- ☐ IX D
- ☐ IX E
- ☐ IX F
- ☐ New Admission

3. Admission Number

---

4. Q1. What is the average turnover of company A over the given years?
- 2 points

Study the following graph and answer the questions that follows:



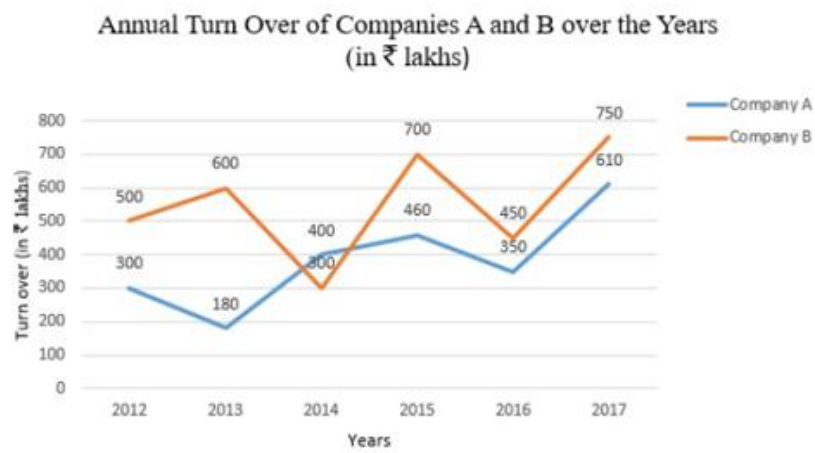
Mark only one oval.

- ☐ 366.66
- ☐ 550
- ☐ 383.33
- ☐ 350

5. Q2. What is the average turnover of Company B over the years?

2 points

Study the following graph and answer the questions that follows:



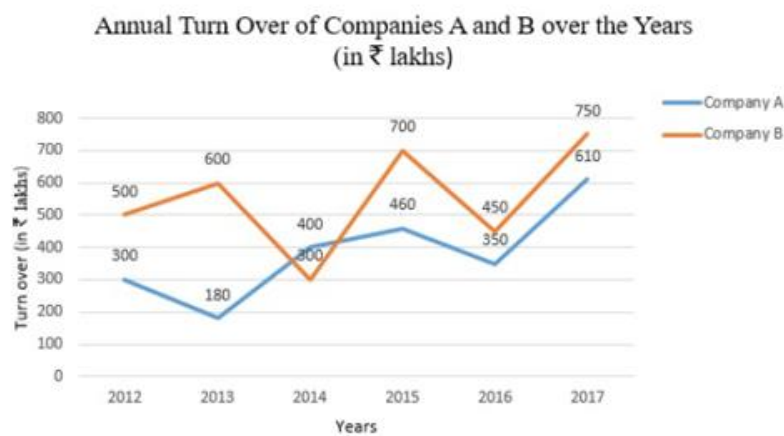
Mark only one oval.

- ☐ 366.66
- ☐ 550
- ☐ 383.33
- ☐ 350

6. Q3. Find the range of data of Company A.

2 points

Study the following graph and answer the questions that follows:

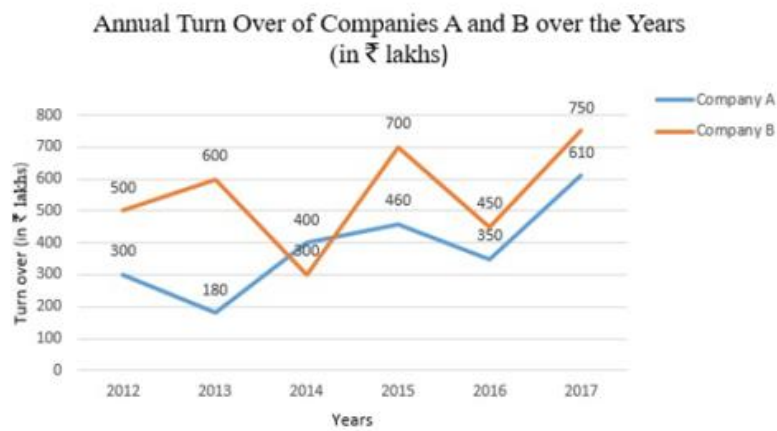


Mark only one oval.

- ☐ 420
- ☐ 430
- ☐ 450
- ☐ 310

7. Q4. Total turnover of company A in 20 12, 20 14 and 20 17 is approximately what percent less than the total turnover of company B in 20 13, 20 15 and 20 16 ?
- 3 points

Study the following graph and answer the questions that follows:



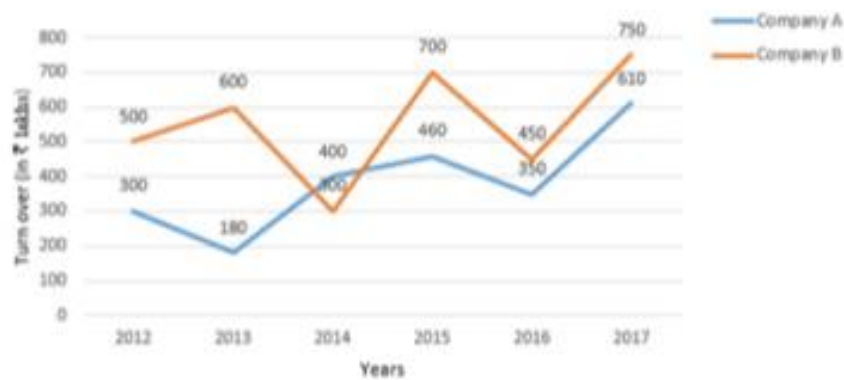
Mark only one oval.

- ☐ 18.8
- ☐ 25.1
- ☐ 26.6
- ☐ 19.6

8. Q5. The number of years in which turnover of company B was more than the average turnover of company A over the given years ? 1 point

Study the following graph and answer the questions that follows:

Annual Turn Over of Companies A and B over the Years  
(in ₹ lakhs)



Mark only one oval.

- ☐ 4
- ☐ 3
- ☐ 5
- ☐ 2

This content is neither created nor endorsed by Google.

Google Forms

# SCIENCE

## GENERAL INSTRUCTIONS FOR SCIENCE:

Prepare a **Power point presentation OR a project report** (maximum 5-6 slides/pages including back and front) on **ANY ONE** of the following topics.

- Class 9 A and B will make on any one topic of Physics from the listed Physics Topics ;Class 9 C and D will make on any one topic of Chemistry from the listed Chemistry Topics and Class 9 E and F will make on any one topic of Biology from the listed Biology Topics.
- Making power point presentation of hand drawn diagrams is also allowed.
- The work submitted by the student should be in PDF format in one single file. The scanned copy or pictures of the project report should also be converted to single PDF file before sending it.
- Students have to include the following information in their powerpoint presentation or project report: Name of student, class and section, subject and topic chosen.

## PHYSICS TOPICS :( for 9A and 9B)

1. Illustrate Newton's laws of motion and their applications in daily life.
2. Graphical representation of motion: different types of s-t and v- t graphs and calculations from the graphs.
3. Gravity in the solar system: shaping planets and stars, effect of gravity on planets and their satellites; acceleration due to gravity on various planets.
4. Density and buoyancy: buoyant force, density of different liquids and to predict whether an object will float or sink in a given liquid.

## CHEMISTRY TOPICS :( for 9C and 9D)

1. Describe any two separation techniques and their uses in day to day life. Also, describe N95 mask available in the market and how does it help prevent spread of Corona virus. (Chapter 2)
2. Describe the 3 different models of an atom suggested by the scientists. Also mention why the earlier models were not accepted. (Chapter 4)
3. Write five examples from your day to day life where you can observe diffusion. (Chapter 1)

## BIOLOGY TOPICS :( for 9E and 9F)

1. Describe different types of cropping patterns in agriculture and mention their advantages. Also assemble the images of few common weeds and pests and name them. Mention 3 ways by which the insect pests attack the plants.(refer to chapter 15)
2. Assemble the images of the animals belonging to 6 classes of the vertebrata such as cyclostomata, pisces, amphibia, reptilia, aves and mammalia. Also write their characteristic features in points. (Refer to lesson 7).
3. Explain different functions of the following cell organelles such as Endoplasmic reticulum, Golgi Apparatus, Lysosomes, Mitochondria, Plastids and vacuoles in points along with their images.

**PLEASE CLICK ON THE LINK GIVEN BELOW AND SUBMIT THE ONLINE WORKSHEET WHICH IS A PART OF YOUR HOLIDAY HOMEWORK.**

<https://forms.gle/Kydg6T8zEDW6JwiZA>

**STUDENTS TO UPLOAD THE HOLIDAY HW PPT ON GOOGLE DRIVE AND SHARE THE LINK OF SCIENCE HOLIDAY HW FOLDER THROUGH THE LINK GIVEN BELOW:**

<https://forms.gle/ovP8GoMeYeRc97jS9>



SOCIAL SCIENCE

General instructions for Social Science:

TOPIC- DIFFERENT DISASTERS, THEIR CONSEQUENCES AND MANAGEMENT-(Different disasters can be Earthquake, Flood, Tsunami – Only cover these three disasters)

- “A. Project can be made either as a PPT or as a folder using the papers that you have at home. eg drawing sheets/file sheets or as PDF. (Not more than 20 slides in case of PPT or 20 pages in case of project on paper)
- While Making a PPT on the first page you have to write the following
  - a. Name
  - b. Class and section
  - c. Topic
- Use of the pictures , cartoons, magazines and newspapers clippings etc. where possible. Be creative. Don’t just copy paste reading material from internet.

OBJECTIVES

1. Every student has to compulsorily undertake one project on Disaster Management.
2. Objectives: The main objectives of giving project work on Disaster Management to the students are to:
  - a. Create awareness in students about different disasters, their consequences and management  
(Different disasters can be Earthquake, Flood, Tsunami – Only cover these three disasters)
  - b. Prepare you in advance to face such situations
  - c. Ensure your participation in disaster mitigation plans
  - d. Enable you to create awareness and preparedness among the community.
3. The project work should also help in enhancing the Life Skills of the students.
4. The distribution of marks over different aspects relating to Project Work is as follows:

S. No.	Aspects	Marks
a	Content accuracy, originality and analysis	2
b	Presentation and creativity	2
c	Viva Voce	1

5. A Summary Report should be prepared highlighting:
  - a. objectives realized through individual work and group interactions;
  - b. innovative ideas generated in the process
6. Google form link for MCQ’s:  
[https://docs.google.com/forms/d/e/1FAIpQLSe1BEdf\\_MJIEo059jEw56wPrFMaGil4FLkTgtqy6EV2llpG8g/viewform?u](https://docs.google.com/forms/d/e/1FAIpQLSe1BEdf_MJIEo059jEw56wPrFMaGil4FLkTgtqy6EV2llpG8g/viewform?u)
7. Please click on the link given below and submit the online assignment which is a part of your holiday homework  
<https://forms.gle/G9uMAEhmwGQnYCBz5>

## FRENCH

### General Instructions for French

- Students have to upload the holiday homework at the link given below in digital form.
  - Make a folder for French holiday homework in which students will create different folders.
  - Holiday homework is to be enclosed in a portfolio containing the following pages:-
  - adjectifs
  - Décrivez - les
  - PPT
1. Écrivez les adjectives ( A 4 size sheet) de deux famille.
  2. Décrivez les :- (A4size sheet)
    - a) Premier ministre d'Inde
    - b) M.Sachin Tendulkar
    - c) Madame Céline Dion
  3. Préparez une présentation orale sur la profession de votre choix (1mint). (On va faire la présentation dans la class.)
  4. Faites une présentation (PPT) sur 'Passe Compose'.
  5. Apprenez une chanson de votre choix en française.
  6. Google form link for holiday homework <https://forms.gle/jZRZKFHYXtYkFo4p7>

## HINDI

प्रश्न 1 निम्नलिखित विषयों पर प्रभावशाली नारे लिखिए ।

- (क) स्वच्छता
- (ख) हिंदी भाषा
- (ग) बिजली की बचत
- (घ) वृक्षारोपण
- (ङ) नदियों के जल की स्वच्छता

प्रश्न 2 निम्नलिखित विषयों पर संदेश लिखिए ।

- (क) योग दिवस
- (ख) बाल दिवस
- (ग) माँ को अपने घर देर से आने का संदेश
- (घ) दुर्घटनाग्रस्त मित्र को शीघ्र स्वास्थ्य कामना का संदेश
- (ङ) ईद के पर्व का संदेश
- (च) जूम कक्षा में उपस्थिति का संदेश

प्रश्न 3 निम्नलिखित विषयों पर संवाद लिखिए ।

- (क) अपने – अपने जीवन – लक्ष्य के बारे में दो मित्रों के बीच होने वाली बातचीत ।
- (ख) नए विद्यालय में अपने पुत्र का दाखिला करवाने गए अभिभावक और प्रधानाचार्य के बीच होने वाली बातचीत ।
- (ग) परीक्षा से एक दिन पूर्व दो मित्रों के बीच होने वाली बातचीत ।

प्रश्न 4 निम्नलिखित विषयों पर अनुच्छेद लिखिए ।

- (क) कलम और तलवार
  - महान शक्ति
  - दोनों की तुलना
  - विद्वान सर्वपूज्यते
  - कलम की महत्ता तलवार से अधिक
- (ख) आज का विद्यार्थी
  - विद्यार्थी और विद्यार्थी जीवन
  - कल और आज के विद्यार्थी- जीवन में अंतर
  - विद्या प्राप्ति के तरीकों में आए परिवर्तन
  - विद्यार्थी जीवन की समस्याएँ और समाधान

\* सभी कार्य हिंदी व्याकरण की उत्तर पुस्तिका में करना है ।

\* कार्य सुंदर व स्पष्ट लेख में करें ।

<https://forms.gle/p6tk69w2EsK8EFWf8>

### SANSKRIT

निर्देश:- सर्व कार्य पुस्तिकायां अथवा पृष्ठेषु(ruled sheets) कुरुत।

प्रश्न 1 एकां सचित्रकथां लिखत।( यथा - स्वर्णकाकः)

प्रश्न 2 सरस्वतीवन्दनायाः श्रव्यसामग्री (audio) Google drive/whatsapp माध्यमेन प्रेषयत।

प्रश्न 3 पत्रिकायाः हेतोः एकं लेखं लिखत।

प्रश्न 4 अधोलिखितानां विषयानाम् अधिकृत्य पञ्चवाक्यानाम् अनुच्छेदं लिखत।

क) उद्यानम् ख) क्रीडाक्षेत्रम् ग) नदीतटम् घ) विद्यालयः

<https://forms.gle/1GVe9s8avSHaLeFB7>

### ART EDUCATION

- Each question to be done separately on A4 size sheets
- Support your work with pictures/drawings where ever required
- Properly place all the work done in a folder for submission
- Folder should be decorative and presentable.

Q1. Write a biography on any one famous Indian Classical dancer. Support with pictures.

Q2. "Quarantine" has inspired new composition in music. Elaborate with suitable examples.

Q3. Make a painting based on tribal folk art of Madhya Pradesh known as 'Gond Art' and write a short note on it.

Q4. Write a script on any social issue.

**FORM LINK:**

IX A B C:

[https://docs.google.com/forms/d/e/1FAIpQLSeNT2ndfDIKg7K63XRDZG2OBhyXBGx9gSZnT63u\\_J5okEVeIw/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeNT2ndfDIKg7K63XRDZG2OBhyXBGx9gSZnT63u_J5okEVeIw/viewform)

IX D E F:

<https://docs.google.com/forms/d/e/1FAIpQLSeMg0dmLJJoIvNv7R54mjaDVW-xxrS0jFjCAGJLE0TjAUuSUw/viewform>

*Students it is said that “All Work & No Play Makes Jack a Dull Boy”. So practice the following and Stay Safe...*

- “ENJOY, RELAX AND REJUVENATE.”
- “CONNECT AND HAVE FUN WITH YOUR NEAR AND DEAR ONES.”
- “EXERCISE, MEDITATE AND EAT HEALTHY. STAY FIT AND POSITIVE.”
- “READ BOOKS, COMMUNICATE WELL AND IMPROVE YOUR LANGUAGE SKILLS”
- “HAPPY VACATIONS”.