

## Instructions for the Holidays Home work:-

**Note:-Holidays Homework carries marks hence submission of work post vacation i.e 10<sup>th</sup> July is compulsory for all students.**

1. The Holidays home work must be done in a very neat and presentable manner. Questions must be done in the given sequence.
2. The child will be assessed for the presentation, neatness, completion of all the given questions and timely submission.
3. For the project, wherever it is mentioned, strictly adhere to the instructions.
4. Last but not least revise all the subjects as it will help you for future assessments.

### Holiday Homework- Class IX (2017-2018)

Subject: SOCIAL SCIENCES

Topic: DISASTER MANAGEMENT

“Each of us as human beings has a responsibility to reach out to help our brothers and sisters affected by disasters. One day it may be us or our loved ones needing someone to reach out and help.” » Michael W. Hawkins

**Learning objective:** Create awareness in learners and enable them to understand and co-relate all aspects of Disaster Management.

**Keeping the above statement in mind, prepare a project on Disaster Management as per the following guidelines:**

#### **1. Highlight the following:**

- Definition of ‘Disaster’.
- What is a disaster management cycle? - What are the types of Disasters?
- Prevention and Mitigation of Common Disasters in India. Select any one for your project.

Earthquake - Cyclones - Flood - Drought - Landslides - Any man – made disaster

- Meaning - Causes - Do’s and don’ts - Prevention and mitigation measures - Your emergency Kit - Latest means of forecasting Disasters.
- Prepare a case study on any one of the Disasters that you have chosen to research.
- Being a young student of CIS phagwara, you are familiar with your school building. According to you, what precautions should you take in evacuating from your classroom in case of a Disaster?

#### **General Instructions:**

1. The project should be hand written.
2. It should be well presented, researched, and pictorial.
3. Cover page, table of contents, acknowledgements, bibliography, headings and sub – headings are a must.
4. The project should be presented in a file.
5. The project should not exceed 15 pages.
6. Take Support from various local authorities and organizations like the Disaster Management Authorities, Relief, Rehabilitation and the Disaster Management Departments of the States, Office of the District Magistrate/ Deputy Commissioners, Fire Service, Police, Civil Defense etc. in the area where the school is located.

### **ASSESSMENT CRITERION**

The distribution of marks over different aspects relating to Project Work is as follows: (5 MARKS)

- Content accuracy and originality -1
- Presentation and creativity- 1
- Process of Project Completion: Initiative, cooperativeness, participation and punctuality-1
- Viva or written test for content assimilation -2

## **Holiday Homework- Class IX (2017-2018)**

### **Subject: SCIENCE**

**Note: following work must be done in respective fair notebooks.**

#### **Physics**

Make a short note on Journey of life of given scientist

1. SIR ISSAC NEWTON
2. ARCHIMEDES
3. GALILEO GALILEI

#### **Chemistry**

1. List the points of difference between homogenous and heterogeneous mixtures. Give five examples of each related to practical daily life.
2. Explain the separation technique will you apply for the following
  - a) Sodium chloride from its solution in water
  - b) Butter from curd
  - c) Iron pins from sand

#### **Biology**

Prepare a presentation on biogeochemical cycles

1. CARBON CYCLE (ROLL NO 1,4,7,10,13,16,19,22,25,28,31)
2. NITROGEN CYCLE( ROLL NO 2,5,8,11,14,17,20,23,26,29,32)
3. OXYGEN CYCLE (ROLL NO 3,6,9,12,15,18,21,24,27,30,33)

## Holiday Homework- Class IX (2017-2018)

### Subject: Punjabi

‘ਸਮਾਂ ਬਹੁਤ ਕੀਮਤੀ ਤੇ ਨਿਰੰਤਰ ਗਤੀਸ਼ੀਲ ਹੈ’। ਇਸ ਨੂੰ ਧਿਆਨ ਵਿੱਚ ਰੱਖਦੇ ਹੋਏ ਭਾਈ ਵੀਰ ਸਿੰਘ ਜੀ ਦੀ ਲਿਖੀ ਹੋਈ ਕਵਿਤਾ ‘ਸਮਾਂ’ ਦੇ ਅਧਾਰ ‘ਤੇ ਆਪਣੇ ਵਿਚਾਰ ਲਿਖਦੇ ਹੋਏ ਦੱਸੋ ਕਿ ਤੁਸੀਂ ਸਮੇਂ ਦਾ ਸਦ-ਉਪਯੋਗ ਕਿਵੇਂ ਕਰੋਗੇ ?

## Holiday Homework- Class IX (2017-2018)

### Subject: Hindi

ਕक्षा : 9

विषय : हिन्दी कक्षा कार्य की उत्तर पुस्तिका पर कार्य करें ( FAIR NOTE BOOK )

ग्रीष्मकालीन अवकाश कार्य

- 1) सड़कों पर बैठे रहने वाले अवारा पशुओं की समस्या तथा इनके कारण होने वाली असुविधाओं एवं दुर्घटनाओं के संबंध में नगर निगम के आयुक्त को पत्र लिखें।
- 2) जीवन में त्योहारों का महत्व (पर निबंध लिखें)
- 3) आपके विद्यालय में पीने के पानी की समस्या को लेकर आपके और आपके मित्र के बीच संवाद लेखन।

## Holidays Homework Class IX- (2016-2017)

### Subject : FIT

#### 1. IT APPLICATION REPORT FILE

15 Marks

Students are supposed to make an IT Application Report File containing real life assignments using Word Processing, Presentation and spreadsheet tools on at least **15 topics** from the domain mentioned in **Unit IV**.

- At least **5 documents** of word processing tools along with mail merge feature.

Use all the following word processor tools in the 5 documents-

- Formatting a document- Alignment
- Character Formatting- Font size, Font style, Font color etc.
- Paragraph Formatting-Line spacing, Borders and shading.
- Setting margins using rulers.
- Bullets and Numbering
- Creating a table
- Formatting a table
- Applying borders and shading to a table
- Headers and Footers
- Adding Page Numbers

- Footnotes and Endnotes
- Page Backgrounds
- Changing Page Color
- Applying Page Borders
- Fontwork Gallery
- Mail Merge
- Track Changes—Insert Comments
- Inserting Drawing objects
- Inserting Mathematical symbols and equations
- At least **5 presentations** of Presentation tools  
Cover all the following Presentation tools in the 5 presentations-
  - Use templates
  - Office themes
  - Formatting slides-Inserting textbox, Editing and formatting text, Applying a theme, Changing the background of slides, Adding slide number, Headers and Footer on slides.
  - Adding Page number, Header, and Footer on Notes and Handouts
  - Creating and Customizing slide master
  - Insert picture from file
  - Inserting online pictures
  - Editing a picture
  - Inserting shapes
  - Inserting Smartart
  - Inserting Watermarks
  - Inserting Screenshots
  - Inserting audio,Video
  - Slide transition and animation
  - Creating photo album
  - Creating hyperlinks
- At least **5 spreadsheets** with graphs  
Cover all the following MS Excel tools in the 5 spreadsheets-
  - Create a workbook
  - Editing cells
  - Inserting and deleting rows and columns
  - Font Formatting
  - Adding background color and Border
  - Alignment and orientation of data
  - Using autofill
  - Custom Lists
  - Autosum
  - Functions
  - Formulae
  - Creating tables
  - Sorting and Filtering
  - Custom Filtering
  - Conditional Formatting
  - Charts

**2. IT APPLICATION PROJECT using word processing, spreadsheet and presentation tools. 10Marks**

## Holidays Homework Class IX- (2016-2017)

### Subject : English

**Note: Following work is to be done in Fair English note book**

**Q1.** You are living in an area which is completely neglected by the Municipal Corporation of your city. A number of residents are suffering from malaria and other diseases. As Raman, write a letter in not more than 120 words to the Health Officer of the Municipal Corporation to take urgent steps to improve the sanitation of your area.

**Q2.** Write an article on the topic 'How to be Healthy' in about 150 words. You can use the following information:

1. Eat healthy food
2. Make salad and soup as per your meals
3. Go on a long morning walk
4. Take milk, fruits and vegetables
5. Avoid junk and fast food

**Q3.** Write a story in about 200 words, which ends on the note: "We all thanked God and were happy to be at home."

## **HOLIDAYS HOMEWORK CLASS IX**

### **SUBJECT: MATHEMATICS**

**Note: following work is to be done in Fair note book**

**Q1.** If  $x = 1 + \sqrt{2}$ , then find the value of  $(x - \frac{1}{x})^3$ .

**Q2.** Find the value of a and b

$$\frac{2 + \sqrt{3}}{2 - \sqrt{3}} = a + b\sqrt{3}$$

**Q3.** Simplify:

$$\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} - \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$$

**Q4.** Express 1.8181..... in the form of  $\frac{p}{q}$  where  $p$  and  $q$  are integers and  $q \neq 0$ .

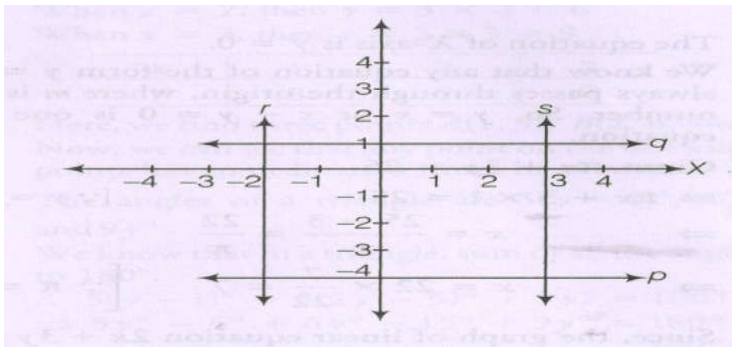
**Q5.** i) Every six months, price of petrol increases at a rate of 4 per litre. Taking price of petrol in December, 2016 as  $x$  and Dec 2017 as  $y$ , form a linear equation showing amount spent on petrol in Dec 2017.

ii) Due to continuous rise in the price of petrol, people are shifting towards CNG whose price increase at the rate of 3 per litre in a year. Form a linear equation taking price of CNG in Dec 2016 as  $a$  and in December 2017 as  $b$ .

iii) Which fuel will you prefer and which value is depicted by using it ?

Q6. . Solve the equation  $5x + 2 = x + 14$  , and represent the solution (s) on  
 (i) the number line (ii) the Cartesian plane

Q7. Write the equation of the lines drawn in following graph. Also ,find the area enclosed between them.

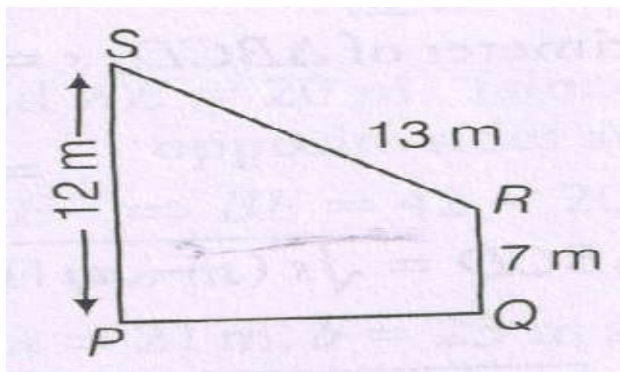


Q8.For what value of c, the linear equation  $2x+cy =8$  has equal values of x and y for its solutions?

Q9.Draw a quadrilateral whose vertices are the points having coordinates as  $(-5,5)$  ,  $(5,5)$  , $(5,-5)$  and  $(-5,-5)$ . Write the special name of the quadrilateral so obtained. Also , find the area of the quadrilateral.

Q10.A triangle and a parallelogram have the same base and the same area. If the sides of the triangle are 13cm,14cm and 15cm and the parallelogram stands on the base 14cm, then find the height of the parallelogram.

Q11.Find the area or the trapezium PQRS, with height PQ, which is given in the figure given below.



Q12.Find the value of m so that  $2x-1$  be a factor of  $8x^4+4x^3-16x^2+10x+m$ .

Q13. If both  $x-2$  and  $x-\frac{1}{2}$  are the factors of  $px^2+5x+r$ , show that  $p = r$ .

Q14. Show that  $\frac{1}{3}$  and  $\frac{4}{3}$  are zeroes of the polynomial  $9x^3-6x^2-11x+4$ . Find the third zero of the polynomial.

Q15.If the polynomials  $az^3+4z^2+3z-4$  and  $z^3-4z+a$  leave same remainder when divided by  $z-3$ , find the value of a.