



## **Holiday Engagement**

**Session 2021-22**

**GRADE -X**

At last the much-awaited summer vacation has begun. It is time to rejoice, rejuvenate and have fun. Let vacation time be a doorway to self-dependence, learning, growth and joy. Keeping this very thought in mind, several interesting activities (Holiday Engagement) have been planned, so as to encourage each child to tap into his/her creative potential.

Time to do something different .... give wings to your imagination by using your knowledge, skills and creativity. We are glad to share with you 'The Goenkan Holiday Engagement', which will give you an opportunity to showcase your talent and indulge in fun-filled, engaging and innovative activities.

Let the fun begin!

Enjoy researching and creating!

It's Summer time again! Time to do something different .... give wings to your imagination by using your knowledge, skills and creativity. We are glad to share with you 'The Goenka Holiday Engagement,' which will give you an opportunity to showcase your talent and indulge in fun-filled, engaging and innovative activities.

## Social Science

**HISTORY PROJECT:** Compare the policies and methods used by Otto von Bismarck and Sardar Vallabh bhai Patel in unification of Germany and integration of States of India respectively:

The report should include: - \*Condition of Germany before 1871 (unification) \*Condition of India immediately after 1947 \*Why the need for unification in both the places \*Emergence of Bismarck and Sardar Patel, their brief life history \*Their role in unification and integration. \*Similarities and differences between the methods adopted by the two leaders \*How did the unification affect the growth of the respective countries?

**GEOGRAPHY PROJECT TASK:** Prepare a report on a resource exhibiting its importance and need for conservation. Out of the given resources pick up one resource of your choice water/mineral/forests/ wildlife. This report is an individual activity.

**CONTENT:** \*Which resource am I? \*Type of a resource \*Importance of the resource \*Availability of the resource \*Area of depletion \*Measures to conserve it.

**INSTRUCTIONS :** 1. The project should be handwritten .

2. Content should be presented only on one side of the paper.
3. Original drawings will help in enriching the project.
4. Present neatly and creatively.
5. Use black gel to write the project.
6. Draw and stick pictures only on the left side of the page.

## Group Activity (Listening and Observation Skills)

**Movie Review** – Your observation should consist of the following:

- Creative Contributors (include a group photo)
- Synopsis
- Creative Elements – Theme and Tone
- Dialogue
- Costume
- Characters
- Setting

**Analysis of the Plot Element**

- Exposition
- Rising action
- Climax
- Falling action

**Instruction**

1. The review should be in a Power Point Presentation.
2. Content should be presented within 12 to 14 slides.
3. Contents should have one or two pictures of the movie.
4. Present your work in the sequence given above.

**Groups:**

Review of Nian The Monster	Review of Alibaba and 40 Dongalu	Review of The Grateful Crane	Review of Nian The Monster	Review of Alibaba and 40 Dongalu	Review of The Grateful Crane
Grade 10A	Grade 10A	Grade 10A	Grade 10B	Grade 10B	Grade 10B
Aatiya	Junaid	Shahid	Abhishek	Bhargav	Sakshi
Aayushi	Kaustub	Sujal	Aman	Brajesh	Satyajeet
Abhishek	Krish	Surbhi	Aniket	Harshit	Saurav
Aditya	Navya	Tanisha	Ankit	Muskan	Shailesh
Anmol	Neha	Udit	Avi	Naman	Sujal T
Anshul	Nishka	Yash	Ayush	Piyush	Sujal S
Bipul	Rajtilak	Yash	Ayush	Prachi	Tushar
Darshan	Rohit	Ratn	Ayushi	Prince	Vaishnavi
Ishan		Risha		Raunak	

You cannot interchange the groups above.

**Movie links are given as under:**

Ali Baba and the 40 Dongalus - <https://www.youtube.com/watch?v=UruDT88CfCU>

Nian The Monster - [https://www.youtube.com/watch?v=0uJbp8d\\_d9c](https://www.youtube.com/watch?v=0uJbp8d_d9c)

The Grateful Crane - <https://www.youtube.com/watch?v=etGR9Ir7rBM>

**OBJECTIVE**

To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.

**MATERIAL REQUIRED**

Graph papers, Pencil, eraser, cardboard, glue.

**METHOD OF CONSTRUCTION**

1. Take a pair of linear equations in two variables of the form

$$a_1x + b_1y + c_1 = 0 \quad (1)$$

$$a_2x + b_2y + c_2 = 0 \quad (2)$$

where  $a_1, b_1, a_2, b_2, c_1$  and  $c_2$  are all real numbers:  $a_1, b_1, a_2$  and  $b_2$  are not simultaneously zero.

There may be three cases:

Case I :  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$

Case II :  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$

Case III :  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$

2. Obtain the ordered pairs satisfying the pair of linear equations (1) and (2) for each of the above cases.
3. Take a cardboard of a convenient size and paste a graph paper on it. Draw two perpendicular lines  $X'OX$  and  $YOY'$  on the graph paper (see Fig. 1). Plot the points obtained in Step 2 on different cartesian planes to obtain different graphs [see Fig. 1. Fig. 2 and Fig. 3].

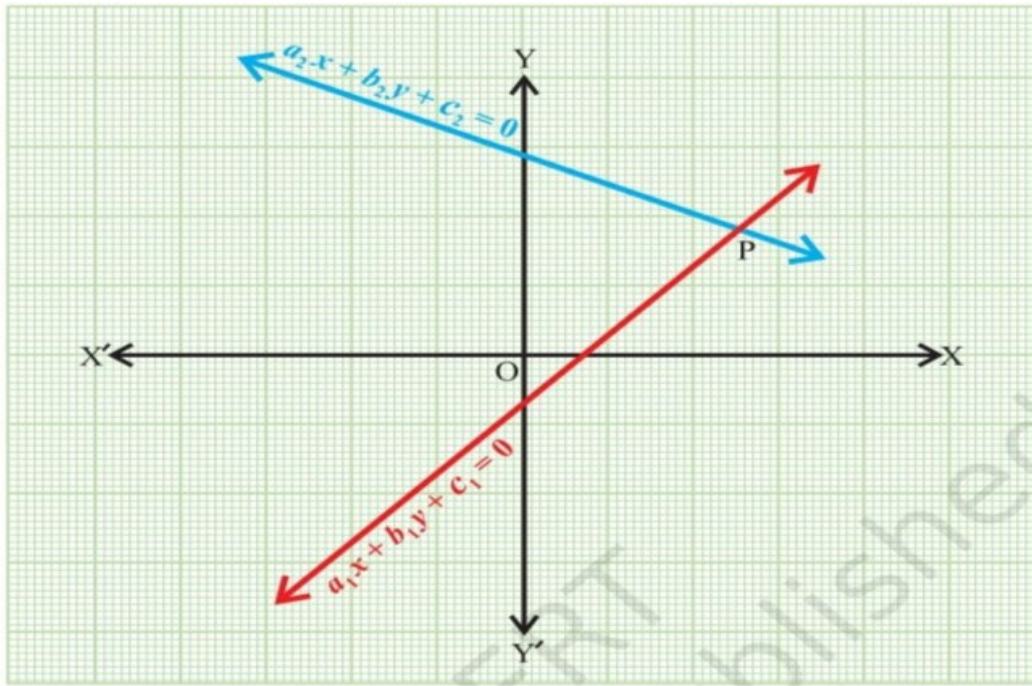


Fig. 1

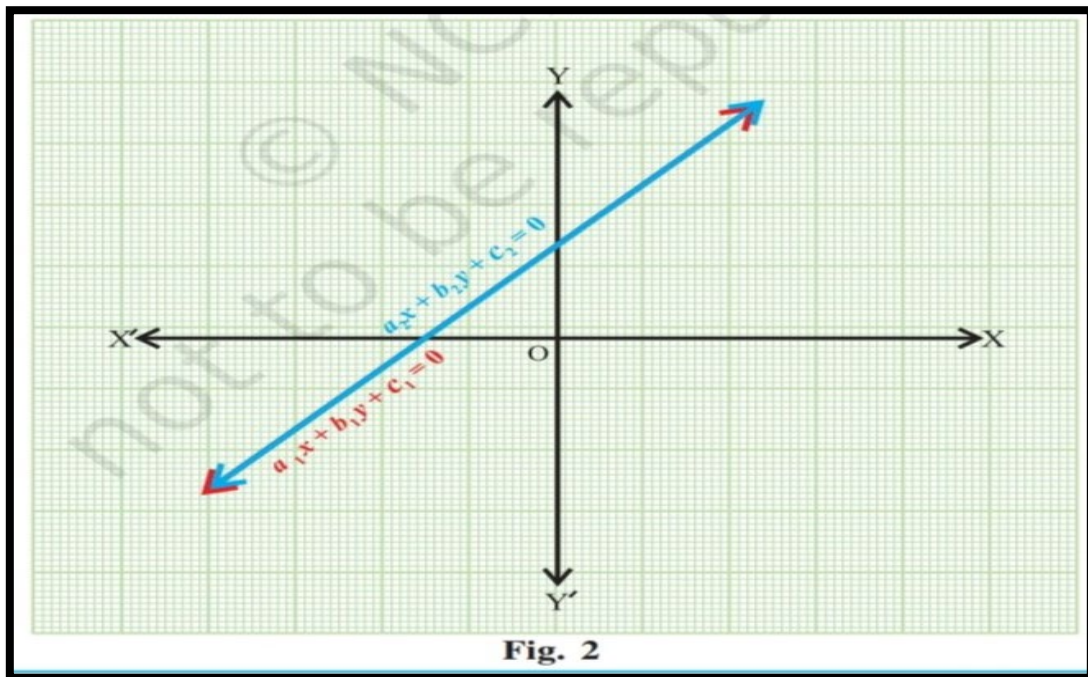


Fig. 2

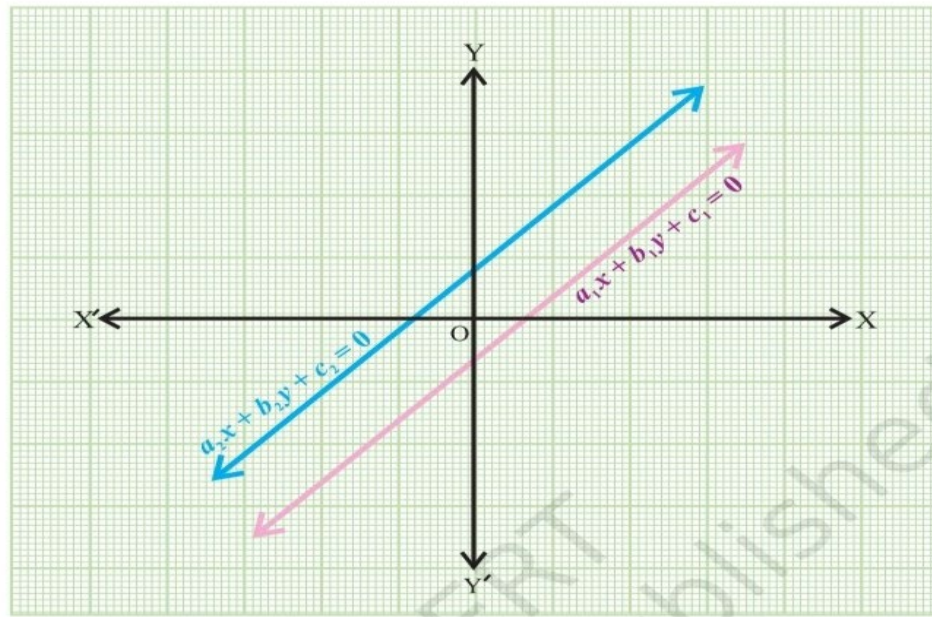


Fig. 3

**DEMOSNTRATION**

**Case I:** We obtain the graph as shown in Fig. 1. The two lines are intersecting at one point P Co-ordinates of the point P (x,y) give the unique solution for the pair of linear equations (1) and (2).

Therefore, the pair of linear equations with  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$  is consistent and has the unique solution.

**Case II :** We obtain the graph as shown in Fig. 2. The two lines are coincident. Thus, the pair of linear equations has infinitely many solutions.

Therefore, the pair of linear equations with  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$  is also consistent as well as dependent.

**Case III:** We obtain the graph as shown in Fig. 3. The two lines are parallel to each other.

This pair of equations has no solution, i.e. the pair of equations with  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$  is inconsistent.

**OBSERVATION**

- |               |               |
|---------------|---------------|
| $a_1 =$ _____ | $a_2 =$ _____ |
| $b_1 =$ _____ | $b_2 =$ _____ |
| $c_1 =$ _____ | $c_2 =$ _____ |

So,  $\frac{a_1}{a_2} = \dots\dots\dots$        $\frac{b_1}{b_2} = \dots\dots\dots$        $\frac{c_1}{c_2} = \dots\dots\dots$

$\frac{a_1}{a_2}$	$\frac{b_1}{b_2}$	$\frac{c_1}{c_2}$	Case I, II or III	Type of lines	Number of solution	Conclusion Consistent/ inconsistent/ dependent

**APPLICATION**

Conditions of consistency help to check whether a pair of linear equations have solution (s) or not.

In case solutions/solution exist/exists, to find whether the solution is unique or the solutions are infinitely many.

Note: Students write the following activity in Activity copy.



## Science

### Biology

#### 1. Experiment 1-

To prepare temporary mounts of a leaf to show stomata.

Kids need to go through the following link and observe the experiment and write down the complete experiment in **BIOLOGY PRACTICAL NOTEBOOK**.

<https://youtu.be/FOLDv1JLzeE>

In the practical Notebook, you need to mention the following:-

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labeled Diagrams in the white sheet with pencil only

NOTE-

- ✚ Write in a neat handwriting.
- ✚ Draw the diagrams in white side of the Practical notebook.
- ✚ Draw the diagrams with pencil only. Label the diagrams properly.
- ✚ Also Fill up the index with proper date.

#### 2. Experiment 2-

To experimentally show that Carbon-dioxide is given out during Respiration.

Kids need to go through the following link and observe the experiment and write down the complete experiment in **BIOLOGY PRACTICAL NOTEBOOK**.

[https://youtu.be/34ESzqzf\\_Uo](https://youtu.be/34ESzqzf_Uo)

In the practical Notebook, you need to mention the following:-

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labeled Diagrams in the white sheet with pencil only

NOTE-

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## PHYSICS

### 3. Experiment 3-

Determination of the focal length of (a) Concave mirror and (b) Convex lens by obtaining the images of a distant object.

Kids need to go through the following link and observe the experiment and write down the complete experiment in **PHYSICS PRACTICAL NOTEBOOK**.

<https://youtu.be/x40F1b3d-A8>

In the practical Notebook, you need to mention the following: -

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labelled Diagrams in the white sheet with pencil only

#### NOTE-

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### 4. Experiment 4-

Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

Kids need to go through the following link and observe the experiment and write down the complete experiment in **PHYSICS PRACTICAL NOTEBOOK**.

<https://youtu.be/el8AUeZalJw>

In the practical Notebook, you need to mention the following:-

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labeled Diagrams in the white sheet with pencil only

#### NOTE-

- ✚ Write in a neat handwriting.
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- ✚ Draw the diagrams with pencil only. Label the diagrams properly.
- ✚ Also Fill up the index with proper date.

## CHEMISTRY

### 5. Experiment 5-

To show the conversion of Quicklime to Slaked Lime.

Kids need to go through the following link and observe the experiment and write down the complete experiment in CHEMISTRY PRACTICAL NOTEBOOK.

[https://www.youtube.com/watch?v=2\\_xZN-kXRp4](https://www.youtube.com/watch?v=2_xZN-kXRp4)

In the practical Notebook, you need to mention the following: -

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labelled Diagrams in the white sheet with pencil only

#### NOTE-

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- ✚ Draw the diagrams in white side of the Practical notebook.
- ✚ Draw the diagrams with pencil only. Label the diagrams properly.
- ✚ Also Fill up the index with proper date.

### 6. Experiment 6-

Finding the pH of the following samples using pH paper/ Universal indicator.

- a) Dilute HCl
- b) Dilute NaOH Solution
- c) Dilute Ethanoic acid solution
- d) Lemon Juice
- e) Water
- f) Dilute Hydrogen Carbonate Solution

Kids need to go through the following link and observe the experiment and write down the complete experiment in CHEMISTRY PRACTICAL NOTEBOOK.

<https://youtu.be/ife1FQtUrwU>

In the practical Notebook, you need to mention the following:-

- Aim of the experiment.
- Materials Required
- Procedure (Write in bullet points)
- Observations (Write in bullet points)
- Conclusion (Write in bullet points)
- Precautions (Write in bullet points)
- Labelled Diagrams in the white sheet with pencil only

NOTE-

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- ✚ Draw the diagrams in white side of the Practical notebook.
- ✚ Draw the diagrams with pencil only. Label the diagrams properly
- ✚ Also Fill up the index with proper date.

व्यक्तिगत गतिविधि

- मीरा के पद पाठ के आधार पर विष्णु के दशावतारों के बारे में जानकारी एकत्र करें | उनके दशों अवतार को चित्र तथा उनसे जुड़ी कहानी के साथ दिखाएँ | आप इसे दिखाते हुए रिकॉर्ड कर सकते हैं | ( आप इस कार्य के लिए विष्णु दशावतार फिल्म की सहायता ले सकते हैं | )
- आप इस कार्य को स्लाइड द्वारा ' पावर पॉइंट प्रजेंटेशन' की सहायता से बना सकते हैं | आपकी रचनात्मकता को प्राथमिकता दी जायेगी |
- इन कार्यों को करते हुए अपनी रचनात्मक सोच दर्शाएँ |
- इन कार्यों के लिए आपको अंक भी दिए जाएँगे |

ग्रीष्मावकाश कार्यम् ( Summer Vacation Home Work)

Grade:- 10

Subject:- Sanskrit

परियोजना - कार्यम् (Project Work)

क) त्रयाणां संस्कृत - कवीनां चित्राणि संलग्नं कृत्वा तेषां विषये पञ्च-पञ्च व्याख्यानि संस्कृते लिखत।

(Paste the photos of three great Sanskrit poets in your Project copy & write 5-5 Sentences for each in Sanskrit.)

ख) विद्यायाः विषये पञ्च श्लोकान् संकल्य स्वर्णाक्षरेण लेखितव्यम्।

(Write Five Shlokas about education in neat & clean handwriting.)

## Devoirs de vacances d'été

Sample letter in French about your vacation:

Bonjour Jean,

Je suis en vacances à Nice pour cinq jours. C'est une ville très sympa. Hier, j'ai joué au volley sur la plage. *Super!* Maintenant, je prends le déjeuner dans un petit café. Il fait très beau, avec beaucoup de soleil. Je rentrerai chez-moi samedi prochain.

Bises

Janet

Cher Paul..Marc...Jean...Papa  
Chère Mathilde...Tante...Grand-mère...Maman  
Chers Parents,

### Main Body of Letter.

Merci beaucoup de ta dernière lettre – Thanks for your last letter

Merci pour la carte postale que j'ai reçue hier matin – Thanks for the postcard I got this morning.

J'ai reçu ta carte d'anniversaire hier matin – I got your birthday card yesterday morning.

Comment vas-tu et ta famille? – How are you and your family

Comment allez-vous là-bas? – How are you all there?

Ça va bien, chez toi/chez-vous? – Everything alright with you?

Je m'excuse de ne pas avoir écrit depuis un mois – I'm sorry I haven't written for a month

J'écris pour te dire de les nouvelles – I'm writing to tell you the news.

J'écris pour t'informer que... – I'm writing to tell you that...

J'ai reçu ton cadeau ce matin. Quelle surprise! – I got your present this morning. What a surprise!

Comment va ton père après son accident? – How is your Dad after his accident?

Comment est-ce que tu as fêté ton anniversaire? – How did you celebrate your birthday?

Tu m'as demandé de te décrire une journée typique dans mon école – You asked me to tell you about a typical school day

J'ai des nouvelles à t'annoncer, je me suis cassé la main! – I have some news to tell you, I broke my hand!

Est-ce que tu veux venir en vacances avec nous ? – Do you want to go on holidays ?

Tu aimes le rugby mais ça m'énerve beaucoup! – You like rugby but it really annoys me!

Le film que j'ai vu ce weekend, c'était super chouette! – The film I saw this weekend was brilliant!

Cette semaine à l'école, c'était casse-pieds! – This week at school was a pain in the neck!

Comment as-tu passé les vacances de Pâques? – How did you spend the Easter holidays?

Je viens de finir mes examens – I've just finished my exams.

Salut \_\_\_\_\_,

Je suis en vacances à \_\_\_\_\_ pour \_\_\_\_\_.  
C'est une ville très \_\_\_\_\_. je visite\_\_\_\_\_. c'est\_\_\_\_\_. Il  
fait\_\_\_\_\_. Je rentrerai chez-moi \_\_\_\_\_.

A bientôt

\_\_\_\_\_

1. Écrivez une lettre à votre ami dans laquelle vous devez écrire à propos de vos vacances d'été.

Les points suivants devraient être : -

a. Qu'as-tu fait pendant les vacances d'été ?

Ou

Où êtes-vous allé pendant les vacances d'été ?

b. Comment était cet endroit ?

c. S'il vous plait joindre vos photos à la lettre.

2. Regardez un film français. Donnez un avis a ce sujet dans une vidéo. (5-7 minutes)

**Bonne Vacances**

## Computer

### Project 1:

#### What to do

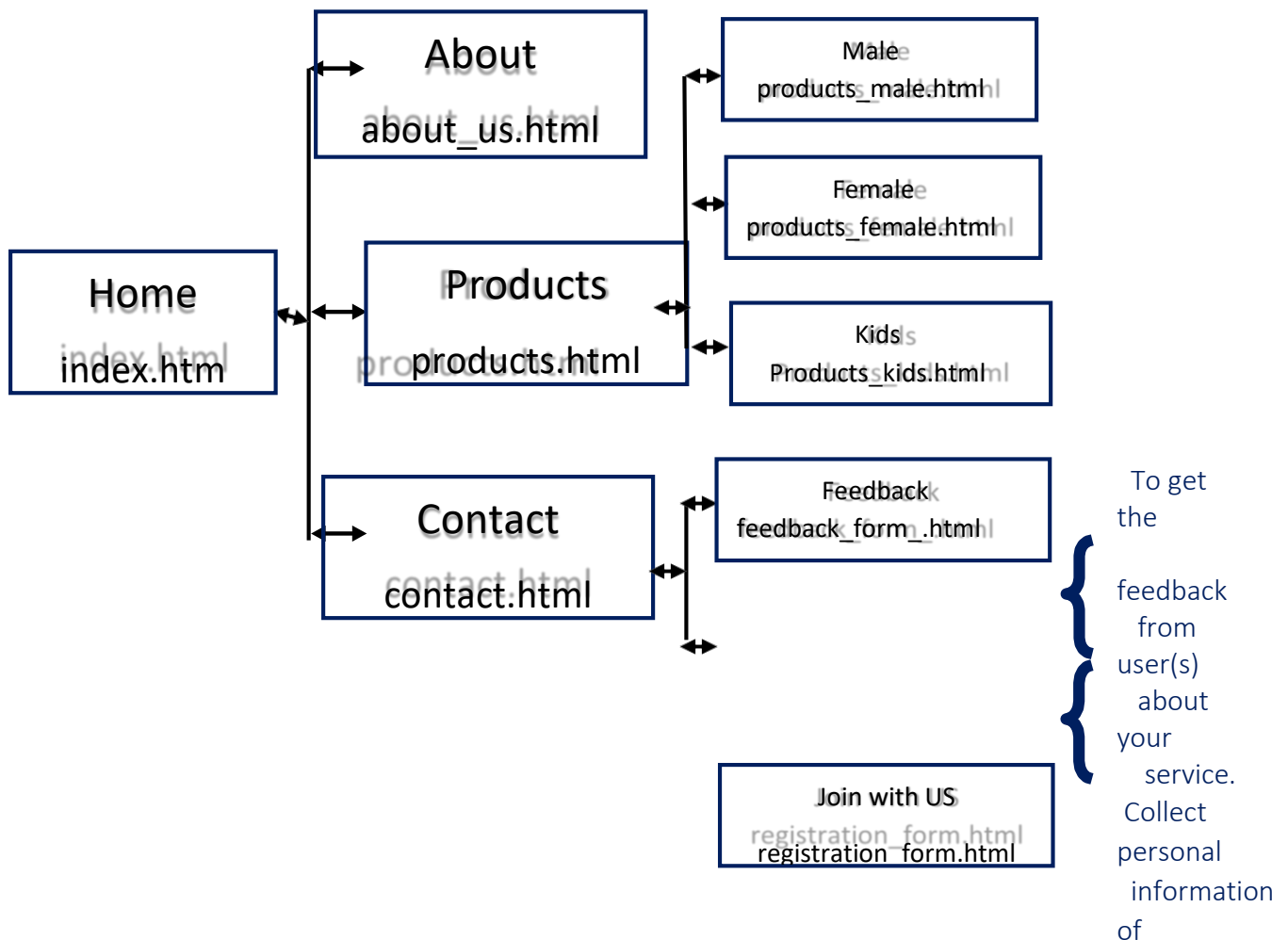
Design anyone of the following website by using HTML & CSS code, should contain at least 6 webpages and each page should be linked with all webpages.

Chose anyone of the following topic to create your website:

- *Your School*
- *Tourism Organisation*
- *Patriot of India*
- *Temples in India*
- *E-Commerce Website*
- *Health Care*

Your website should consist bellow webpages:

(Note: The below flowchart for E-Commerce Website.)



user(s) to  
allow  
them to  
be a  
part of  
your  
organisation.

### Parameters

Creativity, Originality, Overall Presentation.

### File Work:

- 1) Mention Requirements, Aims, Learning Outcomes of your project.
- 2) Draw the flowchart diagram for your website.
- 3) Take screenshots of all source files, output pages and take out print to stick on your portfolio file.
- 4) Submit your project files: [Click me to upload](#) \* You need sign-in / sign-up from Google

Account to upload file(s).

Scan QR Codes for more reference:

For HTML Projects



For HTML Tutorial



For CSS Tutorial

