Bal Bharati
PUBLIC SCHOOL
Pitampura

HOLIDAY HOMEWORK
CLASS X – 2022-23

Family Time!

Here comes your Vacation!

Let's make it more interesting and meaningful…

It's time for you to unravel something that holds your attention…

It's essential to invest your energy into maintaining a good relationship…

Suggested bucket list for you:-

1. <u>Ditch your Gadgets :</u>- Set limits on screen time not just for yourself but for the entire family.Establish a household rule that says gadgets need to be shut off at certain times.

2. <u>Eat Dinner Together</u>:- Eat at least one meal with your family.

3. <u>Remain Active</u>- With your parents, go for a walk, cook a meal, join a yoga session, visit a place of worship once in a week and do meditation.

4. <u>A Project Together</u>- The project could be a simple one, you can read a book within a stipulated time and write a book review.

> Benjamin Franklin rightly said
>
> "Tell me and I forget
>
> Teach me and I remember
>
> Involve me and I learn".

Points to Ponder: –

- Pick up your own plates after every meal.
- Use the three magical words – Please, Sorry and Thank You.

Read the Newspaper daily. Look for a piece of positive news and express it in your own words under the heading 'Did I Know it?' 🧐

General Guidelines for the Holiday Homework Project

- Practice Worksheets of each subject will be shared on weekly basis.
- Every Monday, subject based assignment/s will be uploaded on MS TEAMS. Click on the link to follow the steps to upload your homework.
  https://drive.google.com/drive/folders/11cyfl5zb9a2ltoOdrFU-jcHKmNexuncl

- Students should complete the assigned tasks and upload them on the Friday of the same week.

- All the compulsory projects like SEWA Activity and Consumer Rights Project (Economics)must be attempted and uploaded.

Assessment Criteria

SEWA ACTIVITY- 5marks

Compulsory Project-5 marks

COMPULSORY PROJECT ON CONSUMER RIGHTS

SUBJECT	-	ECONOMICS
TOPIC	-	CONSUMER RIGHTS
SUBTOPIC	-	HOW TO BE A SMART CONSUMER

LEARNING OBJECTIVES-
Each child will be able to:
Know about his rights as a consumer in the market and various steps that he can take to act like a smart consumer in the market

LESSON DEVELOPMENT
'The need for empowerment of consumers as a class cannot be over-emphasized and is already well recognized all over the world.'
In short, the consumer should be empowered with respect to his rights as a consumer.
Recognizing the importance of Consumer awareness, the Government of India has given certain rights to the consumers so that they can protect themselves from exploitation of the sellers and traders.

TASK
Create a Print Advertisement on how to act like a smart consumer in the market.
The advertisement can either be drawn or can be created by using computer software and applications.

ASSESSMENT CRITERIA
Presentation- 2 Marks
Content- 2 Marks
Originality- 1 Mark

Note: Refer to Chapter-5 Consumer Rights given in the ECONOMICS NCERT TEXTBOOK

WORLD ENVIRONMENT DAY- JUNE 5

To mark the occasion and highlight the need to live sustainably in harmony with nature, it's time to bring about transformative changes through our actions and choices towards cleaner, greener and better environment.

SEWA ACTIVITY – Compulsory Activity

Each section has been allotted a topic and varied activities based on the theme 'Environment' with an aim to inculcate sensitivity and concern for the surroundings among students.

Theme: Environment

Aim

- To help the students become responsible citizens of society.
- To sensitise the students towards global issues, environmental issues, health and well-being, civic habits, and so on.
- To inculcate empathy among students.

General Guidelines:

1. Every section has been allotted different topics.
2. Students will do the activities according to their roll number. It is an individual activity.
3. The SEWA activity must be uploaded by 1st July 2022 under the topic "Sewa Activity" on the respective Google Classrooms. Class teachers will create an assignment for submission of the same.

4. Students must attach their SEWA activity in their E-portfolio too.
5. The nomenclature of the file to be uploaded should be as follows:
   E.g.: CLASS XA_NAME OF THE STUDENT_ROLL NO. 1 (Students will give the nameaccording to their section and their roll numbers.)
6. The work should be student's original work.

➢ Suggested <u>Apps</u> for the activities:
  ● CANVA (for creating Posters, PPTs, Brochures)
  ● PowerPoint
  ● Filmora (for creating Documentaries)
  ● Adobe Spark

➢ Students will create their work like E-posters, Documentaries, PPTs, E-brochure, articles, etc. using any one of the following <u>art forms</u>:
  • Gond (Madhya Pradesh)
    https://www.caleidoscope.in/art-culture/gond-art-madhya-pradesh
  • Madhubani (Bihar)
    https://www.madhubani-art.in/
  • Aipan (Uttarakhand)
    https://www.euttaranchal.com/culture/aipan-other-arts-form.php
  • Cheriyal (Telangana)
    https://en.wikipedia.org/wiki/Cheriyal_scroll_painting
  • Warli (Maharashtra)
    https://en.wikipedia.org/wiki/Warli_painting
  • Saura (Odisha)
    https://en.wikipedia.org/wiki/Saura_paintin
  • Phad (Rajasthan)

    https://rajasthanstudio.com/what-is-the-legendary

<u>Section wise SEWA Activity: -</u>

CLASS 10 A

TOPIC: WETLAND CONSERVATION

Roll No (1-15)

Activity: Create a poster on 'Wetland Conservation' with a

  suitable tagline.

  ➢ The poster can either be drawn on an A4/A3 Size sheet or you can create an E-poster.

Roll No (16-30)

Activity: Create a PPT on the topic 'Conservation of Wetlands.' (Total number of slides 10-12).

Roll No (31-40)

Activity: Write an article on 'Conservation of Wetlands.'

Roll No (41-50)

Activity: Make a documentary on 'Conservation of Wetlands.'

CLASS 10 B

TOPIC: GREEN DIWALI, CLEAN DIWALI

Roll No (1-20)

Activity: Create a PPT on the topic 'GREEN DIWALI, CLEAN DIWALI'. (Total number of slides can be 10-12)

Roll No (21-40)

Activity: Create an E-poster or a hand-made poster on an A4/A3 size sheet on the topic 'Eco-friendly Diwali'.

Roll No (41-50)

Activity: Create an E-poster (give a suitable tagline to your poster) or write an article on "Encouraging the local products of India-Atma Nirbhar Bharat Abhiyan.' (E.g., handmade eco-friendly diyas, pots, idols, etc.)

CLASS 10 C

TOPIC: CONSERVATION OF TREES

Roll No (1-20)

Activity: Adopt a Tree

Plant a sapling in any available planter at home. (The planter can be created using any object like plastic bottles, jar, etc). Click a picture while planting the sapling.

Roll No (21-35)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Save Trees.' Give a suitable tagline to your poster.

Roll No (36-50)

Activity: Create a PPT.

➢ Choose any 5 medicinal plants. Collect information on the parts of the plant which have medicinal properties. List their properties and their benefits.

CLASS 10 D

TOPIC: Importance of plants and their significance in Ayurveda.

Roll No (1-20)

Activity: Adopt a Tree.

Plant a sapling in any available planter at home. (The planter can be created using any object like plastic bottles, jar, etc). Click a picture while planting the sapling.

Roll No (21-30)

Activity: Create a PPT on 'Significance of Plants in Ayurveda'. (Total number of slides can be 10-12).

Roll No (31-41)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Significance of Plants in Ayurveda'.

Roll No (42-50)

Activity: Write an article on the topic "Role of medicinal plants in our well-being'.

CLASS 10 E

TOPIC: Clean Energy, Green Energy

Roll No (1-20)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Clean Energy, Green Energy'.

Roll No (21-40)

Activity: Create a PPT on 'Conservation of Electricity'. (Total number of slides can be 10-12).

Roll No (41-50)

Activity: Make a short documentary on 'Clean Energy, Green Energy' or create a flipbook on 'Clean Energy, Green Energy'

CLASS 10 F

TOPIC: Biodiversity

Roll No (1-20)

Activity: Create a short documentary on 'Conservation of Wildlife'.

Roll No (21-30)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Conservation of Biodiversity'.

Roll No (31-40)

Activity: Create an E-brochure on 'Importance of Biodiversity'.

Roll No (41-50)

Activity: Write an article on the topic "Conservation of Biodiversity'.

CLASS 10 G

TOPIC: Reduce, Reuse and Recycle

Roll No (1-20) Activity: Create a useful article using the available waste material. (E.g.: Plastic bottles, straws, old newspapers, magazines, an old   T-shirt, cloth, etc).

- ➢ A few items that can be created are paper bags, folders, bookmarks, coasters, etc. (You can decorate the items using eco-friendly material)
- ➢ Click pictures while performing the activity and upload them too.

Roll No (21-30)

Activity: Create a PPT on 'Reduce, Reuse and Recycle'. (Total number of slides 10-12)

Roll No (31-40)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Reduce, Reuse and Recycle'.

Roll No (41-50)

Activity: Write an article on the topic 'Reduce, Reuse and Recycle'.

CLASS 10 H

TOPIC: PLASTIC POLLUTION

Roll No (1-20)

Activity: Create a PPT on 'Say No to Single Use Plastic'. Also suggest   the alternative items that can be used to phase out single use plastic. (Total number of slides can be 10-15)

Roll No (21-40)

Activity: Create an E-poster or a handmade poster on an A4/A3 sheet on 'Say No to Single Use Plastic'.

Roll No (41-50)

Activity: Create a short documentary showing the harmful effects of plastic on aquatic life.

Week 1: - 30 May 2022 -3 June 2022

Subject based Practice Worksheets :

SUBJECT: -ENGLISH LANGUAUGE AND LITERATURE

Class- X
WEEK 1

Topic: HOLIDAY HOMEWORK WORKSHEET

I.   **Imagine Lencho goes to the post office after finding that he has received 30 pesos less than what he had asked for. Write a dialogue that takes place between Lencho and the postmaster. Try to make it interesting. (You may add some humour)**

Lencho: _____

Postmaster:_____

_____

Lencho: _____

_____

Postmaster: _____

_____

Lencho: _____

II. **In the passage given below, some words are missing. Choose the correct word from the given options to complete the passage meaningfully:**

Think twice before you take a sip a)_____that cola bottle this summer.Experts b)_____that excessive cola consumption can lead to c)_____from mild weakness to profound muscle paralysis. This is
d)_____the cola can cause blood potassium to drop dangerously low which can be fatal e)_____times.

a) i) from	ii)of	iii)in	iv)with
b) i) has warned	ii)warn	iii)warned	iv)have warned
c) i) each	ii)everything	iii)something	iv)anything
d) i) because	ii)as	iii)so	iv)like
e) i) in	ii)at	iii) with	iv)within

III. **The following passage has not been edited. There is one error in each line.Write the incorrect word and the correct word against the correct blank number.**

	Incorrect word	correct word
Community service sensitise people to	(a) _____	_____
thers' needs in supports inclusive	(b) _____	_____
development to the underprivileged	(c) _____	_____
sections with society.	(d) _____	_____

IV. **In the passage given below, one word has been omitted in each line. Write the missing word in sentences of the given paragraph along with the word that comes before and after it against the correct blank numbers.**

	Word before	Omitted word	Word after
Noise pollution, also known noise disturbance	known	as	noise
is one way which we pollute our environment.	a)_____	_____	_____
It is a man pollution caused by high levels of	b)_____	_____	_____
noise in surroundings. Its harmful effects on	c)_____	_____	_____
both human beings animals cannot be ignored.	d)_____	_____	_____
As conscious citizens we to check that enough	e)_____	_____	_____
efforts are made to reduce it.			

बाल भारती पब्लिक स्कूल ,पीतमपुरा

दिल्ली – 110034

विषय -हिंदी   ग्रीष्मावकाश कार्य

कक्षा -दसवीं   अधिन्यास कार्य -1

लेखन -

मीडिया का जनजीवन पर सकारात्मक व नकारात्मक प्रभाव -

संकेत बिंदु - आधुनिक जीवन में आवश्यकता , सकारात्मक प्रभाव ,नकारात्मक प्रभाव उपसंहार

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लेखन -

मीडिया का जनजीवन पर सकारात्मक व नकारात्मक प्रभाव -

संकेत बिंदु - आधुनिक जीवन में आवश्यकता , सकारात्मक प्रभाव ,नकारात्मक प्रभाव उपसंहार

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HOLIDAY HOMEWORK (2022-23)
FRENCH
WEEK 1

Guidelines : Students will do the following work either in their French register or can take a print out of the same.

I. Répondez au négatif :

(ne... pas/ne... ni... ni/ne... rien/ne... pas encore/ne... nulle part/ne ... jamais/personne ne .... / ne ... personne/ne ... plus)

1. Est-ce que Patrick téléphone souvent à ses parents ?

2. Est-ce qu'il a acheté de la viande et des légumes ?

3. Y avait-il beaucoup de personnes à la soirée ?

4. Est-ce que les étudiants ont déjà fini leur projet ?

5. Voyez-vous quelque chose bizarre dans la salle ?

6. Est-ce que François emmène ses enfants à l'école tous les matins ?

7. Le cambrioleur, a-t-il tout dit au policier ?

8. Est-ce que quelqu'un leur a raconté quelque chose d'amusant ?

II. Mettez les phrases suivantes à la forme négative :

(ne... pas/rien ne... /ne... personne/ne... ni ... ni/ ne ... jamais/ne... nulle part/personne ne ... / ne ... rien/ ne... plus/ ne.... pas encore / ne... aucun)

1. Mon mari aime le vin et l'alcool. Il en boit souvent.

2. Il y a encore de l'eau dans la rivière.

3. Pars-en.

4. Arrête-t'y.

5. Michel est amical avec tout le monde dans son quartier.

6. Rémi apporte quelque chose pour moi.

7. Martin aime danser et chanter.

8. Nathalie se renseigne toujours avant de partir en voyage.

9. Nous nous verrons à 6 heures.

10. Vous vous êtes parties hier.

11. Mon frère cherche un emploi.

12. Mon ami a organisé une soirée.

13. Y a-t-il des œufs dans le panier ?

GERMAN HOLIDAY HOMEWORK
CLASS -X
WEEK- 1

Dialog schreiben

1. Du bist beim Arzt,weil du hohes Fieber hast. Was sagst du? Was sagt der Arzt? Schreib dazu einen Dialog.

2. Du willst mit einem Freund ins Kino gehen. Du rufst ihn an. Was sagst du? Was sagt dein Freund? Schreib dazu einen Dialog.

3. Du willst neue Sportschuhe kaufen. Du bittest deinen Vater um mehr Taschengeld. Was sagst du? Was sagt dein Vater? Schreib dazu einen Dialog.

    4. Du hast im Unterricht plötzlich Bauch schmerzen und   möchtest nach Hause gehen. Du fragst deine Lehrerin? Was   sagst du? Was sagt sie? Schreib einen Dialog.

![बाल भारती पब्लिक स्कूल लोगो] बाल भारती पब्लिक स्कूल, पीतम पुरा, दिल्ली।

चित्रवर्णनम्

सहायक यूट्यूब लिंक

https://youtu.be/cQLCxcZXtSw

https://youtu.be/IxALgsrowDQ

https://youtu.be/hfImpSA7djw

https://youtu.be/O6gHhzlLB2E

निर्देशाः -

आपको चित्र पर आधारित पाँच वाक्य संस्कृत भाषा में बनाने होते हैं। आप वाक्यों की भाषा सरल रखें। मञ्जूषा के सभी शब्दों का प्रयोग करना अनिवार्य नहीं होता। आप मञ्जूषा के शब्दों का वचन ,विभक्ति बदल सकते हैं। एक ही प्रकार के वाक्य न बनाएँ। वाक्यों में विभिन्नता लाएँ।
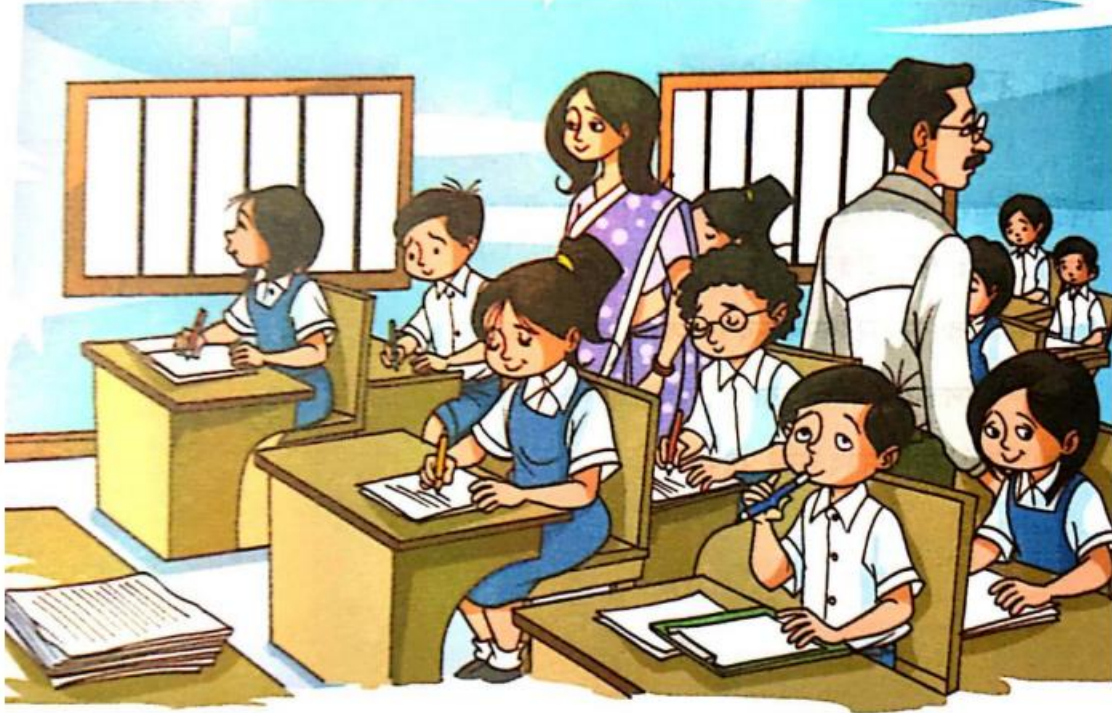
उदाहरण -

मञ्जूषा- उपवनस्य, बालकाः, बालिके, वृक्षरोपणं, हरीतिमा, पर्यावरणं, पुष्पाणि,पर्वताः,स्वच्छं

1 इदं चित्रम् उपवनस्य अस्ति।

2 अत्र वृक्षाः सन्ति।

3 समीपे एव पर्वताः शोभन्ते।

4 सर्वत्र पुष्पाणि विकसन्ति।

5 बालकाः मिलित्वा वृक्षरोपणं कुर्वन्ति।

6 वृक्षाः पर्यावरणं स्वच्छं कुर्वन्ति।

7 सर्वत्र हरीतिमा अस्ति।

तो आपने देखा कि वाक्य विभिन्नता लिए हुए हैं, शुद्ध हैं , सरल हैं। आइये ,अब आप भी इसी प्रकार वाक्य रचना करें।

मञ्जूषा—ग्रामस्य, कुटज:, कन्दुकेन, महिला, भोजनम्, क्रीडति, स्वपिति, पचति, वर्षा

मञ्जूषा—परीक्षाभवनस्य, छात्रा:, ध्यानेन, चिन्तयति, बहि:, किञ्चित्, निरीक्षक:, सर्वान्, वातायनस्य पश्यत:

मञ्जूषा- गृहस्य, सर्वे,मिलित्वा, गृहकार्यं, आसंदिकासु, खादन्ति, माता, पचति, परिवेशयति, पिता, पितामहः,पुत्रः, सहयोगं,प्रसन्नाः

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4--
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मञ्जूषा- जन्मदिवस-उत्सवस्य, केककर्तनम्, सर्वे, करतलध्वनिम्, कुर्वन्ति, फलके, विविधानि, व्यञ्जनानि, गृहसज्जा, प्रसन्नाः, पिता , शिरसि ,टोपिकाः , धारयन्ति।

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मञ्जूषा-अध्यापिका,पाठयति, सर्वे,ध्यानेन, पठन्ति,शृण्वन्ति,भूमौ, उपविशन्ति, प्रसन्नाः, एकबालिका, चक्रासन्दिकायाम्, तिष्ठति

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HOLIDAY HOMEWORK (2022-23)
PHYSICS
WEEK 1
CHAPTER: LIGHT – REFLECTION & REFRACTION

Multiple Choice Questions:

Q.1 A student studies that convex mirror always forms virtual image irrespective of position of object. What causes the convex mirror to always form a virtual image?
(a) because the reflected ray never intersects
(b) because the reflected ray converges at a single point
(c) because the incident ray traces its path back along the principal axis
(d) because the incident ray of a convex mirror gets absorbed in the mirror

Q.2 Rekha placed a juice bottle at a distance of 20 cm in front of a convex mirror which has a focal length of 20 cm. Where is the image likely to form?
(a) at focus behind the mirror
(b) at focus in front of the mirror
(c) at a distance of 10 cm behind the mirror
(d) at a distance of 10 cm in front of the mirror

Q.3 A student conducts an activity using a flask of height 15 cm and a concave mirror. Hefinds that the image formed is 45 cm in height. What is the magnification of the image?
(a) -3 times
(b) -1/ 3 times
(c) 1/ 3 times
(d) 3 times

Q.4 In torches, search lights & headlights of vehicles, the bulb is placed
(a)   between the pole & the focus of the reflector.
(b)   very near to the focus of the reflector.
(c)   between the focus & center of curvature of the reflector.
(d)   at the center of curvature of the reflector.

Q.5   A ray of light AM is incident on a spherical mirror as shown in the diagram. Redraw the diagram and show the path of reflected ray.
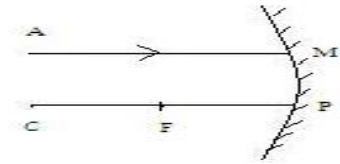
Q.6   Explain why a ray of light passing through the center of curvature of a concave mirror gets reflected along the same path?

Q.7   The linear magnification produced by a spherical mirror is +3. Analyse this value and state the

(i) Type of mirror   (ii) Position of object with respect to the pole of the mirror

Draw a ray diagram to show the formation of image in this case.

Q.8   In the following ray diagram.
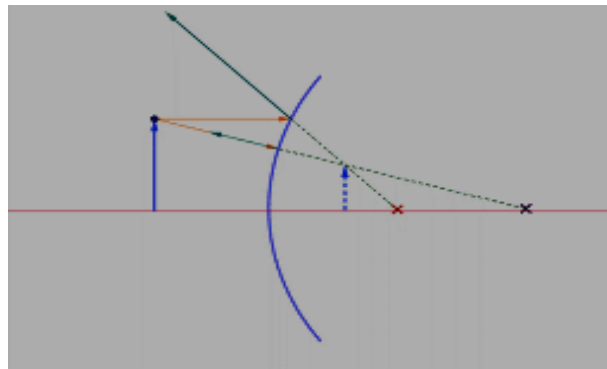
a)   Identify the type of the mirror used?

b)   Is the image formed real or virtual?

c)   Redraw the diagram and mark angles of incidence and reflection for the two raysused to make the diagram.

Numerical problems based on Mirror formula

Q.9   A 2.0-cm-high object is placed perpendicular to the principal axis of a concave mirror. The distance of the object from the mirror is 30cm, and its image is formed 60cm from the mirror, on the same side of the mirror as the object. Find the height of the image formed.

Q.10   A 1.2-cm-long pin is placed perpendicular to the principal axis of a convex mirror of focal length 12 cm, at a distance of 8cm from it. (a)Find the location of the image. (b)Find the height of the image. (c)Is the image erect or inverted?

Q.11   Sunlight is incident on a concave mirror, parallel to its principal axis. The image is formed at a distance of 12cm from the pole. Find the radius of curvature of the mirror.

Q.12   A concave mirror forms an inverted image of an object placed at a distance of 12cm from it. If the image is twice as large as the object, where is it formed? Also calculate the focal length of mirror.

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HOLIDAY HOMEWORK (2022-23)
POLITICAL SCIENCE
WEEK 1
CHAPTER: POWER SHARING

MULTIPLE CHOICE QUESTIONS

Q1. Consider the following statements about the ethnic composition of Sri Lanka:
A. Major social groups are the Sinhala- speaking (74%) and Tamil-speaking (18%)?
B. Among the Tamils, there are two sub-groups, Sri Lankan Tamils and Indian Tamils.
C. There are about 7% Christians, who are both Tamil and Sinhala.
D. Most of the Sinhala-speaking are Hindus or Muslims and most of the Tamil-speaking areBuddhists.
Which of the above statements are correct?
(a) A, B, C
(b) A, B, D
(c) B, C, D
(d) A, B, C, D

Q2. Prudential reasons of power sharing stress on the facts that:
A. It ensures the stability of political order.
B. It reduces the possibility of conflict between social groups.
C. It gives a fair share to minority.
D. It is the very spirit of democracy.
Which of the above statements are
correct?
(a) A, B
(b) A, C and D
(c) All are correct
(d) A, B & C

Q3. Which two languages are generally spoken in Belgium?

a. French and English

 b. Dutch and English

 c. French and Dutch

 d. Dutch and Sinhala

Q4. In the question given below, there are two statements marked as Assertion(A) andReason (R)

 Read the statements and choose the correct option.

Assertion(A): French speaking community in Belgium was rich and powerful.

Reason(R): Belgium government favoured French speaking community.

 Options:

 a. Both (A) and (R) are true and (R) is the correct explanation of (A).

 b. Both (A) and (R) are incorrect

c. (A) is correct, but (R) is incorrect

d. (A) is incorrect, but (R) is correct.

Q5. Assertion (A): Belgium and Sri lanka both faced ethical tension among differentcommunities.

Reason(R): Both the countries resolved the conflict by power sharing arrangement which gave equal representation to all the communities.

 a. Both (A) and (R) are true and (R) is correct explanation of (A).

 b. Both (A) and (R) are incorrect.

 c. (A) is correct, but (R) is incorrect.

 d. (A) is incorrect, but (R) is correct

 Q6. Modern democracies maintain check and balances system .Identify the correct optionbased on the horizontal power sharing arrangement.

  a. Central government, State government, local bodies.

  b. Legislature, executive, judiciary.

 c. Among different social groups.

 d. Among different pressure groups.

 7. Division of powers between higher and lower levels of government is called

 . a. horizontal distribution

 b. parallel distribution

 c. vertical division

 d. diagonal division

8. The government in which power is shared by two or more political parties is known as:

a. Community government

b. Unitary government

c. federal government

d. Coalition government

9. The majority social group in Sri lanka is :

a. Sinhala speaking people

b. Tamil speaking people

c. Indian Tamil migrants

d. Sinhala and Tamil Christians

10.Power sharing is desirable because it helps to:

a. increase pressure on the government.

b. reduce possibilities of conflicts.

c. generate awareness among the people.

d. increase percentage of vote.

Q11.Fill in the Blanks

When European countries came together to form the European Union (EU),.........was chosen
as the headquarters.
2. The.................distribution of power is also called a system of checks and balances.
3. The religion followed by Sinhala-speaking people in Sri Lanka is ....
4.................division of power means power to be shared among the government at different levels.
5. In.................leaders realised that unity of the country is possible by respecting the interests of
different communities.
6. In the year................an Act was passed to recognise Sinhala as the official language.

Q12.Mention any three demands of the Sri Lankan Tamils.

Q13.The Belgium model of power sharing was better" Support this statement with suitableexamples.

Q14.List and explain the different forms of Power Sharing in a democracy

Q15.CASE STUDY QUESTION

Read the given extract and answer the following questions:

The idea of power-sharing has emerged in opposition to the notions of undivided political power. For a long time, it was believed that all power of a government must reside in one person or group of persons located at one place. It was felt that if the power to decide is dispersed, it would not be possible to take quick decisions and to enforce them. But these notions have changed with the emergence of democracy. One basic principle of democracy is that people are the source of all political power. In a democracy, people rule themselves through institutions of self-government. In a good democratic government, due respect is given to diverse groups and views that exist in a society. Everyone has a voice in the shaping of public policies. Therefore, it follows that in a democracy political forms of power-sharing should be distributed among as many citizens as possible.

Answer the following MCQs by choosing the most appropriate option:

Q15.1 The basic principle of democracy is:

(a) people are the source of all political power.

(b) none can exercise unlimited power.

(c) power of a government reside in one person.

(d) to reduce confl ict between social groups.

Q15.2 Which is a prudent reason for power- sharing?

(a) It reduces the possibility of conflict between communities and ensures the stability of

political order.

(b) Power-sharing is the very spirit of democracy.

(c) Both (a) and (b)

(d) None of the above

Q15.3 Which of the following options describes a good democratic system?

(a) Everyone has a voice in the shaping of public policies.

(b) Power to take quick decision and to enforce them.

(c) All power resides in one person.

(d) Power is shared among central and state governments.

BAL BHARATI PUBLIC SCHOOL PITAMPURA

HOLIDAY HOMEWORK CLASS X MATHS

WORKSHEET -1

TOPIC : LINEAR EQUATIONS IN ONE VARIABLE

Q1. The value of k, for which the system of equations

   x + (k + l)y = 5 and (k + l)x + 9y = 8k – 1 has infinitely many solutions.

Q2. Draw the graphs of the equations $4x - y - 8 = 0$; $2x - 3y + 6 = 0$. Also determine the vertices of the triangle formed by the lines and x-axis.

Q3. Seven times a two-digit number is equal to four times the number obtained by reversing the order of its digit. If the difference between the digits is 3, then find the number.

Q4.Solve the system of equations by Elimination method

 71x + 37y = 253; 37x + 71y = 287.

Q5. The present age of a woman is 3 years more than three times the age of her daughter. Three years hence, the woman's age will be 10 years more than twice the age of her daughter. Find their present ages.

Case study Question

It is common that Governments revise travel fares from time to time based on various factors such as inflation (a general increase in prices and fall in the purchasing value of money) on different types of vehicles like auto, Rickshaws, taxis, Radio cab etc. The auto charges in a city comprise of a fixed charge together with the charge for the distance covered. Study the following situations

Name of the city	Distance travelled (Km)	Amount paid (Rs.)
City A	10	75
	15	110
City B	8	91
	14	145

Situation 1: In city A, for a journey of 10 km, the charge paid is Rs 75 and for a journey of 15 km, the charge paid is Rs 110.

Situation 2: In a city B, for a journey of 8km, the charge paid is Rs91 and for a journey of 14km, the charge paid is Rs 145.

Refer situation 1

1. If the fixed charges of auto rickshaw be Rs x and the running charges be Rs y km/hr, the pair of linear equations representing the situation is
   a) x + 10y =110, x + 15y = 75
   b) x + 10y =75, x + 15y = 110
   c) 10x + y =110, 15x + y = 75
   d) 10x + y = 75, 15 x + y =110

2. A person travels a distance of 50km. The amount he has to pay is
a) Rs.155
b) Rs.255
c) Rs.355
d) Rs.455

Refer situation 2

3. What will a person have to pay for travelling a distance of 30km?
   a) Rs.185
   b) Rs.289
   c) Rs.275
   d) Rs.305

4. The graph of lines representing the conditions are: (situation 2)