

ARMY PUBLIC SCHOOL
MEERUT CANTT(2023-24)
Holidays Assignment for class X

English

1.Create a calendar with base of old newspapers .On one corner write a paragraph for the people of the world to give reasons to visit.U.P. and Arunachal Pradesh.It can include verses,jingles,poem or just be simple letter.

Depict local art and cottage industries of U.P and Arunachal Pradesh through colours,cuttings,paper craft on same sheet.

Prepare itinerary of travelling from U.P to A.P's most visited places on physical map of India in one corner.

Speaking Skills

2.Prepare 2 mts speech on promoting tourism in these states in most innovative way.

3.Recapitulate all work done so far in English.

Science

HOLIDAY HOMEWORK (CLASS X 2023-24)

- I. Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:**
- (a) Both A and R are true and R is the correct explanation of A.**
 - (b) Both A and R are true but R is not the correct explanation of A.**
 - (c) A is true but R is false.**
 - (d) A is false but R is true.**

1.Assertion (A): AgBr is used on photographic and X-ray film.

Reason (R): AgBr is photosensitive and changes to Ag and bromine in presence of sunlight and undergoes

decomposition reaction.

2.Assertion (A): Magnesium ribbon keeps on burning in atmosphere of nitrogen.

Reason (R) : Magnesium reacts with nitrogen to form magnesium nitride and this reaction is combination reaction.

3.Assertion (A): When calcium carbonate is heated, it decomposes to give calcium oxide and carbon dioxide.

Reason (R): The decomposition reaction takes place on application of heat, therefore, it is an endothermic reaction.

4.Assertion (A): Iron articles are painted so as to prevent them from rusting.

Reason (R): When the surface of iron is coated with paint, its surface does not come in contact with oxygen and moisture therefore rusting does not take place.

5.Assertion (A): Pungent smelling gas is produced when sulphur burns in air.

Reason (R) : Sulphur trioxide is formed on reaction of sulphur with oxygen.

6.Assertion (A): A lead nitrate on thermal decomposition gives lead oxide, brown coloured nitrogen dioxide and oxygen gas.

Reason (R): Lead nitrate reacts with potassium iodide to form yellow ppt. of lead iodide and the reaction is double displacement as well as precipitation reaction.

7.Assertion(A) : The centre of curvature is not a part of the mirror. It lies outside its reflecting surface.

Reason (R) : The reflecting surface of a spherical mirror forms a part of a sphere. This sphere has a centre.

8.Assertion(A) : The emergent ray is parallel to the direction of the incident ray.

Reason (R) : The extent of bending of the ray of light at the opposite parallel faces (air-glass interface and glass-air interface) of the rectangular glass slab is equal and opposite.

9.Assertion(A) : The formula connecting u , v and f for a spherical mirror is valid in all situations for all spherical mirrors for all positions of the object.

Reason (R) : Laws of reflection are strictly valid for plane surfaces.

10.Assertion(A) : Refractive index has no units.

Reason (R) : The refractive index is a ratio of two similar quantities.

11.Assertion(A) : Concave mirrors are used as make-up mirrors.

Reason (R) : When the face is held within the focus of a concave mirror, then a diminished image of the face is seen in the concave mirror.

12.Assertion(A) : When the object moves with a velocity 2 m/s, its image in the plane mirror moves with a velocity of 4 m/s.

Reason (R) : The image formed by a plane mirror is as far behind the mirror as the object is in front of it.

13.Assertion(A) : A ray of light travelling from a rarer medium to a denser medium slows down and bends away from the normal. When it travels from a denser medium to a rarer medium, it speeds up and bends towards the normal.

Reason (R) : The speed of light is higher in a rarer medium than a denser medium.

14.Assertion(A) : Aerobic respiration requires less energy as compared to anerobic respiration

. Reason (R) : Mitochondria is the power house of the cell .

15. Assertion: human heart is four chambered . **Reason (R):** vena cava is the only artery that supplies deoxygenated blood to the heart

16.Assertion(A)energy is required to carry on different life processes

Reason (R) energy is obtained in the form of ATP in mitochondria .

II. CASE STUDY

1. A chemical reaction is a representation of chemical change in terms of symbols and formulae of reactants and products. There are various types of chemical reactions like combination, decomposition, displacement, double displacement, oxidation and reduction reactions. Reactions in which heat is released along with the formation of products are called exothermic chemical reactions. All combustion reactions are exothermic reactions.

(i) The chemical reaction in which a single substance breaks down into two or more simpler substances upon heating is known as

- | | | | |
|-----|------------------|---------------|----------|
| (a) | thermal | decomposition | reaction |
| (b) | photo | decomposition | reaction |
| (c) | electric | decomposition | reaction |
| (d) | both (a) and (c) | | |

(ii) The massive force that pushes the rocket forward through space is generated due to the

- (a) combination reaction
- (b) decomposition reaction
- (c) displacement reaction
- (d) double displacement reaction

(iii) A white salt on heating decomposes to give brown fumes and yellow residue is left behind. The yellow residue left is of

- (a) lead nitrate

- (b) nitrogen oxide
- (c) lead oxide
- (d) oxygen

(iv) Which of the following reactions represents a combination reaction?

- (a) $\text{CaO (s)} + \text{H}_2\text{O (l)} \rightarrow \text{Ca(OH)}_2 \text{ (aq)}$
- (b) $\text{CaCO}_3 \text{ (s)} \rightarrow \text{CaO (s)} + \text{CO}_2 \text{ (g)}$
- (c) $\text{Zn(s)} + \text{CuSO}_4 \text{ (aq)} \rightarrow \text{ZnSO}_4 \text{ (aq)} + \text{Cu(s)}$
- (d) $2\text{FeSO}_4 \text{ (s)} \rightarrow \text{Fe}_2\text{O}_3 \text{ (s)} + \text{SO}_2 \text{ (g)} + \text{SO}_3 \text{ (g)}$

(v) Complete the following statements by choosing correct type of reaction for X and Y.

Statement 1: The heating of lead nitrate is an example of ‘X’ reaction.

Statement 2: The burning of magnesium is an example of ‘Y’ reaction.

- (a) X- Combination, Y- Decomposition
- (b) X- Decomposition, Y-Combination
- (c) X- Combination, Y-Displacement
- (d) X- Displacement, Y-Decomposition

2. The spherical mirror forms different types of images when the object is placed at different locations. When the image is formed on screen, the image is real and when the image does not form on screen, the image is virtual. When the two reflected rays meet actually, the image is real and when they appear to meet, the image is virtual. A concave mirror always forms a real and inverted image for different positions of the object. But if the object is placed between the focus and pole. the image formed is virtual and erect. A convex mirror always forms a virtual, erect and diminished image. A concave mirror is used as doctor’s head mirror to focus light on body parts like eyes, ears, nose etc., to be examined because it can form erect and magnified image of the object. The convex mirror is used as a rear view mirrors in automobiles because it can form an small and erect image of an object.

(i) When an object is placed at the centre of curvature of a concave mirror, the image formed is

- (a) larger than the object
- (b) smaller than the object
- (c) same size as that of the object
- (d) highly enlarged.

(ii) No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be

- (a) plane
- (b) concave
- (c) convex
- (d) either plane or convex.

(iii) A child is standing in front of a magic mirror. She finds the image of her head bigger, the middle portion of her body of the same size and that of the legs smaller. The following is the order of combinations for the magic mirror from the top.

- (a) Plane, convex and concave
- (b) Convex, concave and plane
- (c) Concave, plane and convex
- (d) Convex, plane and concave

(iv) To get an image larger than the object, one can use

- (a) convex mirror but not a concave mirror
- (b) a concave mirror but not a convex mirror
- (c) either a convex mirror or a concave mirror
- (d) a plane mirror.

(v) A convex mirror has wider field of view because

- (a) the image formed is much smaller than the object and large number of images can be seen.
- (b) the image formed is much closer to the mirror
- (c) both (a) and (b)
- (d) none of these.

Biology

(V). Draw well labelled and colorful diagrams on A4 sheet of the following - TS of dicot leaf, Nutrition in Amoeba, Human digestive system, Human Respiratory system, Human heart and Human excretory system.

(VI) Prepare a ppt comparing flora and fauna found in Meghalaya, Arunachal Pradesh and Uttar Pradesh. . Mention their biological names medicinal properties and economic importance.

MATHEMATICS

• Solve the following Assignment Questions.

1. If the HCF of 65 and 117 is expressible in the form $65m - 117$, then the value of m is
(a) 4 (b) 2 (c) 1 (d) 3
2. The largest number which divides 70 and 125, leaving remainders respectively, is
(a) 13 (b) 65 (c) 875 (d) 1750
3. The product of a non-zero rational and an irrational number is
(a) always irrational (b) always rational
(c) rational or irrational (d) one
4. On a morning walk, three persons step off together and their steps measure 40 cm, 42 cm and 45 cm, respectively. What is the minimum distance each should walk, so that each can cover the same distance in complete steps?
5. **Prove that $3 + 2\sqrt{5}$ is irrational.**
6. Find HCF and LCM of 404 and 96 and verify that $\text{HCF} \times \text{LCM} = \text{Product of the two given numbers}$.
7. Given that $\sqrt{2}$ is irrational, prove that $(5 + 3\sqrt{2})$ is an irrational number.
8. Write the smallest number which is divisible by both 360 and 657.
9. **Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion:**
(i) $13/3125$ (ii) $17/8$ (iii) $64/455$ (iv) $15/1600$
10. **Prove that: $\text{LCM}(9 \ \& \ 12) \times \text{HCF}(9 \ \& \ 12) = \text{Product of 9 and 12}$**
11. **8 and 9 are two co-prime numbers. Using these numbers verify, $\text{LCM of Co-prime Numbers} = \text{Product of the Numbers}$.**
12. **Find the HCF of $12/25, 9/10, 18/35, 21/40$.**

CHAPTER- POLYNOMIALS

1. For what value of k , (-4) is a zero of the polynomial $x^2 - x - (2k + 2)$?
2. For what value of p , (-4) is a zero of the polynomial $x^2 - 2x - (7p + 3)$?
3. If 1 is a zero of the polynomial $p(x) = ax^2 - 3(a - 1)x - 1$, then find the value of a .
4. If $(x + a)$ is a factor of $2x^2 + 2ax + 5x + 10$ find a .
5. Write the zeroes of the polynomial $x^2 + 2x + 1$.
6. Write the zeroes of the polynomial $x^2 - x - 6$.
7. Write a quadratic polynomial, the sum and product of whose zeroes are 3 and -2 respectively.
8. Find a quadratic polynomial whose zeroes are -4 and 3 and verify the relationship between the zeroes and the coefficients.
9. Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficient of the polynomial.
10. Find the zeroes of the quadratic polynomial $5x^2 - 4 - 8x$ and verify the relationship between the zeroes and the coefficient of the polynomial.

CHAPTER- PAIR OF LINEAR EQUATIONS IN TWO
VARIABLES

- 1.** For what values of a and b does the following pair of equations have an infinite number of solutions. $2x+3y=7$, $a(x+y) - b(x-y) = 3a+b-2$
- 2.** For what value of k will the following equations have infinitely many solutions?
 $2x-3y=7$, $(k+1)x + (1-2k)y=5k-4$
- 3.** The sum of denominator and numerator of a fraction is 3 less than twice the denominator. If each of the numerator and denominator is decreased by 1, the fraction becomes $\frac{1}{2}$. Find the fraction.
- 4.** The sum of the digits of a two-digit number is 12. The number obtained by interchanging the two digits exceeds the given number by 18. Find the number.
- 5.** The sum of the numerator and denominator of a fraction is 12. If 1 is added to both numerator and denominator the fraction becomes 15. Find the fraction.
- 6.** 4 men and 6 boys can finish a piece of work in 5 days while 3 men and 4 boys can finish it in 7 days. Find the time taken by 1 man alone or than by 1 boy alone.
- 7.** A man travels 600km apart by train and partly by car. It takes 8 hours and 40 minutes if he travels 320 km by train and rest by car. It would take 30 minutes more if he travels 200 km by train and the rest by the car. Find the speed of the train and by car separately.
- 8.** Solve the equations graphically. $2x+y=2$, $2y-x=4$. Also find the area of a triangle formed by the two lines and the line $y=0$.
- 9.** For what value of k will pair of equations have no solution?
 $3x+y=1$, $(2k-1)x + (k-1)y = 2k+1$
- 10.** Solve the following pair of equations graphically. $x+3y=6$, $2x-3y=12$. Also find the area of the triangle formed by the lines representing the given equations with y-axis.

SOCIAL SCIENCE



1- Power Point Presentation on the topic-

'Contribution of Indian Army towards G20 Presidency'-India G20-2023.

Guidelines for PPT-

Every student will prepare 20 slides on the topic using G20 background covering following points-

Slide1- Topic, Name of student, class & section

- a. History of G20
- b. Members
- c. Chair Rotation
- d. India G20 Presidency-theme, logo, agenda points
- e. Importance of G20 for India
- f. G20 meetings in India
- g. Major challenges

❖ ***Google form will be shared with students for uploading Power Point Presentation on G20 Summit 2023.***

❖ **Instructions**

1. Use A4 Sheets
2. Make sure your work is neat and clean.
3. Use proper handmade drawings wherever required.
4. Understand the listed assignment very well.
5. Submit the holiday homework in a proper folder or file and make sure that your work is completed in all respect.

HISTORY

Chapter 1 (Nationalism in Europe)

1. Draw any four symbols of Nationalism in Europe and explain its meaning and significance.

2. Prepare colourful (postcards) giving information about Mazzini ,Garibaldi,Cavour and Bismarck and their contribution in the unification of Italy and Germany
Write the significance of the Greek War of Independence.

OR

3. Prepare a poster on the Napoleonic Code (civil code) (chapter 1)

4 On the political map of India locate and label the places associated with the National Movement in India. Refer chapter 3 (Nationalism in India)

1. Indian National Congress Sessions:

a. Calcutta (Sep. 1920)

b. Nagpur (Dec. 1920)

c. Madras (1927)

2. Important Centers of Indian National Movement

a. Champaran (Bihar) - Movement of Indigo Planters

b. Kheda (Gujarat) - Peasant Satyagrah

c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha

d. Amritsar (Punjab) - Jallianwala Bagh Incident

e. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement

f. Dandi (Gujarat) - Civil Disobedience Mo

GEOGRPAHY

5 Chapter 1 (Resources and Development)

a. On the political map of India mark Major soils of India. (A 4 sheet)

b. AIL PROJECT: Prepare a PPT by pictorial description/videography/by enacting based on issues 'Sustainable Development' of Water Resources in UP, Arunachal Pradesh and Mizoram by the government and the people of these regions

OR

Prepare a PPT by pictorial description / videography about Sustainable Developmen tof Forest and Wildlife resources in Arunachalpradesh/ Meghalzuya and UP

6 .Prepare a poster on the issue of Sustainable Development
Collage on ther issue of Water Scarcity

OR

7 Chapter 3 (Water Resources): AILPROJECT- Prepare a poster on the issue of Water Scarcity and Watershed management program in - UP, Arunachal Pradesh / Mizoram and write a report on the causes of water scarcity and the measures to conserve it in these states

POLITICAL SCIENCE

8. Chapter 1- Make a Poster on the Major Forms of Power Sharing in Modern Democracy

9. Chapter 2 - Give any five reasons which have been attributed to the success of

Federalism in India in the form of flow charts (For All Activities use A4 Sheets)

ECONOMICS

10 Chapter 1 - Draw a poster on:
Different Indicators of Development.

11. Chapter 2 - Write a short note on the changes in the occupational pattern of India since independence. (Transition from Primary Sector to Secondary and Tertiary Sector), refer page 23 and 24 of Text book.

OBJECTIVE : To enhance the subject knowledge and better understanding

To enhance their creative side

To inculcate their interest in the subject

To improve their map reading skills

To develop scientific temper and the spirit of enquiry

To develop comparative skills

NOTE (activity)

THE DISTRIBUTION OF MARKS OVER DIFFERENT ASPECTS RELATING TO WORK

S. No.	Aspects	Marks
A	Content accuracy, originality and analysis	2
B	Presentation and creativity	2
c	Punctuality	1

ग्रीष्मावकाश गृहकार्य 2023-24

विषय-हिंदी

कक्षा-10

1. पत्र लेखन- जिम , पूरक आहार जैसे महंगे साधनों द्वारा शारीरिक शक्ति बढ़ाने के स्थान पर संतुलित आहार और भारत की प्राचीन परंपरा योग की ओर युवाओं का आकर्षण बढ़ाने हेतु लिखे गए लेख को छपवाने का निवेदन करते हुए समाचार पत्र के संपादक को पत्र लिखिए।

2. विज्ञापन लेखन -

अपने नगर में होने वाली हस्तशिल्प प्रदर्शनी के प्रचार के संबंध में एक आकर्षक विज्ञापन तैयार करें।

अथवा

मलेरिया, डेंगू आदि बीमारियों से बचाव के लिए स्वास्थ्य मंत्रालय की ओर से जनहित में एक विज्ञापन तैयार करें।

3. ग्रीष्मावकाश के दौरान किन्हीं पांच विशेष दिनों का जिसमें कोई ऐसी घटना घटी हो जिसने आपको प्रभावित किया हो उन दिनों का डायरी लेखन करें।

4. बुजुर्ग समाज की धरोहर हैं। हरिहर काका कहानी से प्रेरणा लेकर समाज में वृद्धों के प्रति युवाओं के कर्तव्य अपने शब्दों में लिखें।

5. अंतर्विषयी परियोजना कार्य (इतिहास से संबंधित)

स्वाधीनता आंदोलन में भाग लेने वाली अरुणाचल प्रदेश की किसी प्रसिद्ध महिला आंदोलनकारी के विषय में सचित्र जानकारी दें।

परियोजना कार्य के मूल्यांकन बिंदु

1. विषय वस्तु
2. प्रस्तुतीकरण
3. समयबद्धता
4. अन्य विषयों से संबद्धता
5. सामग्री संकलन की शोधपरकता

ग्रीष्मावकाश गृहकार्य-2023-24

विषय-संस्कृत

कक्षा-10

- 1- गायत्री मन्त्र को हिन्दी अर्थसहित लिखो ।
- 2-“परोपकार” विषय पर कोई 5 श्लोक हिन्दी अर्थसहित लिखो ।
- 3-अस्मद् शब्द, युष्मद् शब्द के रूप लिखो।
- 4-भू और अस् धातु के रूप लटलकार, लृटलकार, लोटलकार, विधिलिङ्ग एवं लङ्लकार में लिखो।
- 5-सेव् (आत्मनेपद) धातु के रूप पांचों लकारों में लिखो ।
- 6-नेट पर खोज करके संस्कृत के महत्त्व पर 200 शब्दों में एक लेख हिन्दी में लिखो कि इसको पढ़ने से क्या-क्या लाभ हो सकता है ?
- 7- अपना परिचय संस्कृत में 5 वाक्यों में लिखो ।

नोट- इस कार्य के आपको अंक भी दिये जाएँगे

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विषय-संस्कृत

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- 7- अपना परिचय संस्कृत में 5 वाक्यों में लिखो ।

नोट- इस कार्य के आपको अंक भी दिये जाएँगे

ARMY PUBLIC SCHOOL MEERUT CANTT

SUMMER HOLIDAY HOMEWORK

SESSION 2023-2024

CLASS X INFORMATION TECHNOLOGY (402)

1) Collect the data on any 5 Sustainable Development Goals * and frame it in the document using Open Office Writer.

(Use the features: -Styles and templates). Also, add relevant images.

2) Attach the document in the Google Classroom against the assignment.

3) In the document mention the following details:

- ❖ Class
- ❖ Sec
- ❖ Admission Number

4) Parameters:

- ❖ Creativity
- ❖ Originality
- ❖ Overall presentation

*** Note:** The Sustainable Development Goals, also known as the Global Goals set by United Nations, are a collection of seventeen interconnected objectives aimed at promoting sustainable development across economic, social, and environmental dimensions.

Army Public School Meerut Cantt

Class X

Holiday Homework

Artificial Intelligence (417)

We hope that you are enjoying your well-deserved break and taking some time to recharge and relax. However, we also want to encourage you to continue your learning journey by completing the below mentioned assignment.

Choose a problem related to the United Nations' Sustainable Development Goals. The problem statement should be well-defined and clearly identify the issue which is to be addressed. It should also provide context on why this problem is important and who is affected by it.

Once identified the problem, come up with a stepwise solution to tackle it. The solution should be realistic and feasible, taking into account the resources, time, and stakeholders involved. It should also be aligned with one or more of the Sustainable Development Goals and demonstrate how the solution contributes to creating a more sustainable and equitable world.

To help you structure your homework, we have provided the following rubrics:

1. Problem Statement (5 Marks)
2. Solution (5 Marks)
3. Implementation Plan (5 Marks)
4. Creativity and Innovation (5 Marks)
5. Presentation (5 Marks)

We believe that this exercise will not only help you develop your problem-solving skills but also deepen your understanding of the Sustainable Development Goals and the role you can play in contributing to their achievement.

We wish you all the best and look forward to reading your insightful solutions.

*Note:

1. The completed document in the form of pdf will be uploaded on the following drive link:

https://drive.google.com/drive/folders/1qUsh_wXVmhjgV8fd9f73020eQZ96KNQE?usp=share_link

2. The file name should be student's name with admission number ex(ajay12345)
3. The holiday homework can be done in groups as well. Therefore, the team can have a minimum of 1 and maximum of 4 members.

HOLIDAY HOME WORK
SESSION:2023-2024
CLASS : X
SUBJECT: FMM

-

Q1 What do you mean by securities?

Q2 Who regulates the securities market?

Q 3 Who are the participants in the securities market?

Q 4 What is the full form of :

a)SEBI

b) NSE

c) SCRA

Q5 What is the function of securities market?

Q6 Karan is an investor who wants to invest in different types of securities. Being his friend you suggested him various kinds of securities in which he can invest. Name any four types of securities in which, according to you, Karan can invest.

Q7Why does security market needs regulators?

Q8 Briefly explain the role of SEBI.

Q9 Name different segments of securities market.

Q10 What do you mean by intermediary? Is it necessary to transact through an intermediary?

44MULTIDISCIPLINARY PROJECTS

CLASS X (2023-24)

TOPIC : COPING WITH EXAMINATION STRESS (BADE BHAJ SAAB)

COVER PAGE :

- SCHOOL NAME
- STUDENT NAME
- CLASS- SECTION
- ADM. NO

PAGE 1

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PAGE 2

Acknowledgement

PAGE 3

English

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Hindi

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Maths

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SCIENCE

PAGE 7

SOC.SCI.

SUBJECT	NATURE OF THE TASK
ENGLISH	<p>“Don't push them into something just because you feel it's good for them.”</p> <p>Referring to the above quote write a paragraph in about 80-100 words on 'How to cope up with Examination stress'.</p>
HINDI	<p>आप मोहन/मोहिनी हैं। अपने छोटे भाई को पत्र लिखकर समझाएं कि दसवीं बोर्ड की परीक्षा की तैयारियों के दौरान अपने तनाव को कैसे दूर किया जा सकता है।</p>
MATHS	<p>Graphs showing figures relating to hours worked and stress levels amongst</p>

	<p>student, Compare graphs of student's Stress level during board exam of previous 5 years</p>
SCIENCE	<p>With reference to getting into something which we do not like and stress specially Examination stress-</p> <p>a) Write about the importance of nutrition in reducing exam stress. Give some methods of reducing stress during exam time for a good healthy state of body and mind. Also find about some nutritional value foods required during exam time.</p> <p>b) Find and Compare two nutritional value dishes of Uttar Pradesh and Arunachal Pradesh, paste their pictures and write their recipe in short.</p>
SST	<p>Increasing complexity of examination require new approaches and ideas, our students are full of creative ideas and approaches that can help them and others in making their preparation for examination easy and stress free.</p> <p>Students can choose any one of the following topics and prepare a strategy that can be used to make the study easy and effective.</p> <ol style="list-style-type: none"> 1. Soil resources

	<ol style="list-style-type: none">2. Resource planning and land resource.3. Sectors of Indian economy.4. Federalism <p>your planning must include following points-</p> <ol style="list-style-type: none">5. how to learn the given topic.6. Stratgies to revise the topic .7. Last minute strategy.
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