

## **SUMMER VACATION ASSIGNMENTS (2026-27)**

### **CLASS – X**

#### **ENGLISH**

1. During summer break, students from class X conducted a research on the ecological features of Lakshadweep and Delhi, focusing on environmental differences and sustainability practices. Students collected data on factors such as green cover, water resources, pollution levels, biodiversity, and waste management OF Delhi and Lakshadweep.  
Based on the data, write a well-structured paragraph (120–150 words) analyzing the ecological differences between the two regions. Give a creative title to your writing.  
(Your paragraph should highlight: key environmental contrasts, reasons for these differences  
Importance of ecological conservation in both regions)
2. Identify the chapters related with the following proverbs. Write a speech/diary entry/article on the chapter highlighting the proverb in A4 size sheet. (Any one)
  - a) Freedom is not free
  - b) Honesty is the best policy
  - c) Fear is only as deep as the mind allows.

#### **HINDI**

सामान्य निर्देश :- कार्य सुंदरता एवं स्वच्छता पूर्वक कीजिए ।

कार्य A4 साइज शीट पर करें) कीजिए।

1. दिल्ली और अंडमान निकोबार के पर्यावरण का एक तुलनात्मक अध्ययन करें। इससे इससे आपने क्या सीखा, लिखें।

इस अध्ययन के उपरांत दिल्ली के प्रदूषण को कम करने और अंडमान की प्राकृतिक सुंदरता को बचाने के लिए आप क्या कदम उठाना चाहेंगे। इस पर अपने विचार प्रकट कीजिए।

2. दोनो केंद्र शासित प्रदेशों का एक संक्षिप्त सचित्र भौगोलिक परिचय दीजिए।

## **MATHEMATICS**

### **1. PROJECT**

Topic: Comparative Study of Biodiversity and Environment in Lakshadweep and Delhi

Lakshadweep is a group of 36 coral islands ranging from coral reefs to tropical forests in the Arabian Sea. Its rich marine biodiversity includes several species of fish, mollusks and invertebrates whereas Delhi has a unique urban ecology shaped by its dense population, historical landscape, rivers, forests, and rapid urbanization.

Instructions:

(i) Prepare a Power Point Presentation (8-10 slides) on the above topic.

(ii) Collect data on ecological factors such as green cover, water resources, pollution levels, bio-diversity and waste management practices of both Lakshadweep and Delhi in tabular form.

(iii) Compare and analyze the data using different mathematical operations like ratio, proportion, percentage etc. Represent the analyzed data with the help of Bar Graph or Pie chart.

(iv) In your conclusion, provide a brief explanation on how mathematics helps us to understand different Ecosystems, recognize human impact on environment and promote environmental awareness.

3. Draw a poster of “Mathematics in our Daily Life” on A-3 sized sheet.

## **SCIENCE**

1. Create a **Water Resource comic strip-**

**Scientific Core-** This topic focuses on how different water resources are extracted and contaminated. It compares Delhi’s surface- water reliance (heavy chemical pollution in the Yamuna River Basin) with Lakshadweep’s dependency on a fragile groundwater and rainwater harvesting. It also highlights how salt water intrusion threatens island drinking water.

### **METHOD-**

- Page 1- Draw a cartoon character in Delhi using a Water filter to move chemical foam and heavy metals from tap water.
- Page 2-Draw a character in Lakshadweep using a magnifying glass to check a thin layer of sweet freshwater floating carefully over salty ocean water.

2.Create a series of neat ray diagrams for all object positions for Concave/Convex mirrors and Convex/Concave lenses. You can use coloured threads on A4 sheets to represent incident and refracted rays.

3.Make a poster on the following topics according to your Roll Nos

- i. Save Power and drive away darkness (Roll No.1to10)
- ii. Reproductive Health –Problems and Strategies (Roll No. 11 to 20)
- iii. One Organ donor can save 8 lives (Remaining students)

4. Complete all assignments and notes uploaded on ERP.

## **SOCIAL SCIENCE**

### **A. Comparative Analysis Project : ” *Ecology of Lakshadweep Islands and Delhi*”**

#### **Instructions for Students:**

- Make the project on A4 size designer sheets.
- Use pictures, maps, charts, and diagrams to make it attractive.
- Write neatly with proper headings and coloured borders.
- Include relevant drawings or newspaper cuttings.

#### **Project Topics:**

**1. Eco Map Study:** Draw or paste maps of Lakshadweep and Delhi and mark important ecological features such as water bodies, green areas, coral reefs, forests, and urban regions.

**2. Climate Detective:** Prepare a comparison chart showing temperature, rainfall, humidity, and seasons of both regions.

**3. Human Impact Analysis:** Explain how tourism, industries, transport, and construction activities affect the environment in both regions.

**4. Pollution Comparison:** Compare air, water, noise, and plastic pollution in Lakshadweep and Delhi using charts, graphs, or slogans.

**5. Resource and Water Management:** Research sources of water, energy, and methods used for conservation in both regions.

**B. Project Topic: Consumer Rights:**

“Even today, many consumers are exploited due to lack of awareness and negligence. Analyse this statement and explain how consumer rights help in protecting individuals.” Include these subtopics:

i) “Awareness is the key to consumer protection.”

Explain how awareness helps consumers make better choices with examples.

ii) “Every consumer has rights, but not everyone uses them.”

Describe the different consumer rights and why they are often ignored.

iii) “A responsible consumer is as important as strong laws.” Discuss the responsibilities of consumers in the market.

iv) “Laws are effective only when people use them.”

Explain the role of consumer protection laws in India.

Make a project on A4 size designer Sheet including relevant pictures, cuttings, graphs etc.

## **ARTIFICIAL INTELLIGENCE**

1) INFOGRAPHIC: Ecological Comparison Between Lakshadweep and Delhi

### DELHI

Draw on a Chart Paper or Create a digital infographic using Canva application:

Highly urbanized metropolitan city

- Dense population
- Extreme air pollution
- Rapid industrialization and construction

Ecological Importance

- Biodiversity parks and urban forests
- Yamuna River ecosystem
- Green belts and wetlands

### LAKSHADWEEP

Coral Reef Ecosystem

Draw on a Chart Paper or Create a digital infographic using Canva application:

- Coral reefs (foundation of ecosystem)
- Lagoons
- Atolls
- Seagrass beds

Ecological Importance:

- Protect coast from erosion
- Home to marine species
- Support fisheries

2) Make python practical file on python programming questions given in your book from page no. 489-493.

NOTE: On first page of your practical file mention “PYTHON PRACTICAL FILE, SESSION 2026-27” WRITTEN IN BOLD with your personal details.

## **ART**

1. Design two book marks (Size 6cm-16 cm) on thick ivory sheet showing the difference between the wildlife of Delhi and Andaman and Nicobar Islands.

## **PHYSICAL EDUCATION**

1. Write the following practical work in your file and submit it by 15 July 2026.

- (a) Pick any one game of your choice out of the given list. Make a labelled diagram of field and equipment rules, history of games, terminologies & fundamental skills (Basketball, football, kabaddi, kho-kho, volleyball, handball, cricket)
- (b) Sports personalities/awardees of the game/sports
- (c) Fitness tests administration (SAI Khelo India Test)
- (d) Procedure for Asanas, benefits and contraindication for any 5 asanas for each lifestyle disease.
- (e) Sports Injuries.

2. Make a chart any one game of your choice out of the list above. Labelled diagram of field and equipment rules, terminologies & skills (basketball, football, kabaddi, kho-kho, volleyball, handball, cricket and Sports and games for children with special needs)

3. Prepare a report of visit to any one for the following:

Open tournament/competition of any game/sports/fitness centre/Zonal /Delhi state games