

# ASN SR SEC SCHOOL

MAYUR VIHAR-1  
HOLIDAY ASSIGNMENT (2016-2017)

## CLASS X

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### Maths

1. Prepare for viva, which will be included in FA4 marks under individual activity.
2. Do the following questions in your notebook from RD SHARMA.

PAGE NO.	QUES. NO.
8.13	Eg.-6,7,8,9,10
8.19	Ex-8.3-Q5,11,12,17,18,19,20,25,32,42,50
8.25	Ex-8.4 COMPLETE
8.41	Ex-8.6-Q1,2,3,4,6,19
12.7	Eg-15,31,32,33,34,39,44
16.66	Eg-7,10,11
9.29	Ex-9.4-Q2,6,7
	Ex-9.5-Q3,20,40,41
9.19	Eg-21,22,24,30
9.33	Eg-13,15,16
14.16	Q9,28,42,49
14.27	Eg-18,19,20
14.29	Ex-14.3-Q11,22,7,25,26,35,50,55
14.53	Q15,20,27,28

### Social Science

**Prepare a map file as per the details given**

#### A. History

Outline Political Map of India

Nationalism in India – (1918 – 1930).

For locating and labelling / Identification.

1. Indian National Congress Sessions :-

Calcutta (Sep. 1920)

Nagpur (Dec. 1920)

Madras,(1927)

Lahore (1929)

2. Important Centres of Indian National Movement  
(Non-cooperation and Civil Disobedience Movement)

- (i) Champaran (Bihar) Movement of Indigo Planters
- (ii) Kheda (Gujrat) Peasant Satyagrah
- (iii) Ahmedabad (Gujarat) Cotton Mill Workers Satyagraha
- (iv) Amritsar (Punjab) Jallianwala Bagh Incident.
- (v) Chauri Chaura (U.P.) calling off the NCM.
- (vi) Bardoli (Gujarat) no tax campaign
- (vii) Dandi (Gujarat ) Civil Disobedience Movement.

## **B. GEOGRAPHY**

### Outline Political Map of India

#### Chapter 1 : Resources and Development

Identification only : Major soil Types.

#### Chapter 3 : Water Resources

Locating and Labelling – Dams:

- (1) Salal
- (2) Bhakra Nangal
- (3) Tehri
- (4) Rana Pratap Sagar
- (5) Sardar Sarovar
- (6) Hirakud
- (7) Nagarjuna Sagar
- (8) Tungabhadra.

#### Chapter 4 : Agriculture

Identification only

- (a) Major areas of rice and wheat.
- (b) Major producer states of sugarcane; tea; coffee; rubber; cotton and jute.

#### Chapter : 5 Mineral and Energy Resources.

Minerals : (Identification only)

##### (I) Iron ore mines :

Mayurbhanj

Durg

Bailadila

Bellary

Kudremukh

##### (II) Mica mines:

Ajmer

Beawar

Nellore

Gaya

Hazaribagh.

(III) Coal mines :

Raniganj  
Jharia  
Bokaro  
Talcher  
Korba  
Singrauli  
Singareni  
Neyvali

(IV) Oil Fields :

Digboi  
Naharkatia  
Mumbai High  
Bassien  
Kalol  
Ankaleshwar

Power Plants:-

(Locating and Labelling only)

(a) Thermal :

Namrup  
Talcher  
Singrauli  
Harduaganj  
Korba  
Uran  
Ramagundam  
Vijaywada

Tuticorin

(b) Nuclear:

Narora  
Rawat Bhata  
Kakrapara  
Tarapur  
Kaiga  
Kalpakkam

Chapter 6 Manufacturing Industries

Locating and Labelling Only

(1) Cotton Textile Industries :

Mumbai  
Indore  
Ahmedabad

Surat  
Kanpur  
Coimbatore  
Madurai

(2) Woollen Industry :

Srinagar  
Amritsar  
Ludhiana  
Panipat  
Mirzapur  
Jamnagar

(3) Silk Industry :

Anatnag  
Srinagar  
Murshidabad  
Mysore

(4) Iron and Steel Plants :

Burnpur  
Durgapur  
Bokaro  
Jamshedpur  
Raurkela  
Bhilai  
Vijaynagar  
Bhadravati  
Vishakhapatnam  
Salem

(5) Software Technology Parks:

Mohali  
Noida  
Jaipur  
Gandhinagar  
Indore  
Mumbai  
Pune  
Kolkata  
Bhubaneshwar  
Vishakhapatnam  
Hyderabad  
Bangalore  
Mysore  
Chennai  
Thiruvananthapuram

Identification Only :  
Golden Quadrilateral  
North-South Corridor  
East-West Corridor.

National Highways :  
NH-1  
NH-2  
NH-7

Locating and Labelling :

Major Ports –  
Kandla  
Mumbai  
Jawahar Lal Nehru  
Marmagao  
New Mangalore  
Kochi  
Tuticorin  
Chennai  
Vishakhapatnam  
Paradip  
Haldia  
Kolkata

International Airports :  
Amritsar (Raja Sansi)  
Delhi (Indira Gandhi International)  
Mumbai (Chhatrapati Shivaji)  
Thiruvananthapuram (Nedimbacherry)  
Chennai (Meenam Bakkam)  
Kolkata (Netaji Subhash Chandra Bose)  
Hyderabad

## Science

### PHYSICS Chapter - Light

- 1) At what distance should an object be placed from a convex lens of focal length of 18cm to obtain an image at 24 cm from it on other side. What will be the magnification produced in this case.
- 2) The image of an object placed at 60 cm placed in front of a convex lens is obtained on the screen at a distance of 120 cm from it. Find the focal length of the lens. What should be the height if the image if the object is 5 cm high?
- 3) For which position of the object does a convex lens form a virtual & erect image? Explain with

the help of a ray diagram.

- 4) An object 2 cm in size is placed 30 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image. What will be the nature and size of the image formed? Draw a ray diagram to show the formation of the image in this case.
- 5) A convex lens has focal length of 10 cm. At what distance the lens should the object be placed so that it forms a real and inverted image 20 cm away from the lens? What would be the size of the image formed if the object is 2 cm high? With the help of a ray diagram show the formation of the image by the lens in this case.
- 6) A concave lens has focal length of 20 cm. At what distance from the lens a 5 cm tall object be placed so that it forms an image at 15 cm from the lens? Also calculate the size of the image.
- 7) An object 50 cm tall is placed on the principle axis of a convex lens. Its 20 cm tall image is formed on the screen placed at a distance of 10 cm from the lens. Calculate the focal length of the lens.
- 8) A 5 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 20 cm. The distance of the object from the lens is 30 cm. Determine the position & size of the image.
- 9) How far should an object be placed from the convex lens of focal length of 20 cm to obtain its image at a distance of 30 cm from the lens? What will be the height of the image if the object is 6 cm tall?
- 10) a. Two lenses have power of +2D and -4D. What is the nature and focal length of each lens?  
b. An object is kept at a distance of 100 cm from each of the above lenses. Calculate the image distance and magnification in each of the two cases.

## CHEMISTRY

### CARBON AND ITS COMPOUNDS

1. Catenation is the ability of an atom to form bonds with other atoms of the same element. It is exhibited both by carbon and silicon. Compare the ability of catenation of the two elements.
2. What is the common name of ethylene?
3. How do the following hydrocarbons burn?
  - a. Saturated hydrocarbons in the presence of
    - i. Sufficient /excess of air.
    - ii. Limited amount of air.
  - b. Unsaturated hydrocarbons in the presence of sufficient air.
  - c. Kerosene in a wick type stove.
4. What are the products of complete combustion of a hydrocarbon?
5. Why is the conversion of ethanol to acetic acid an oxidation reaction?
6. What is the role of nickel in hydrogenation reactions of unsaturated hydrocarbons?
7. Write the molecular formula and the names of the immediate higher and lower homologues of  $C_3H_4$ . Write the molecular formula of the third and the fifth members of the homologous series of hydrocarbons represented by the general formula  $C_nH_{2n-2}$

7. Compound X is obtained from Y, when Y is heated at 445k with excess of con  $H_2SO_4$ . X decolorizes bromine water. Identify X and Y.
8. An organic compound X is a constituent of wine and beer. This compound on oxidation forms another organic compound Y which is a constituent of vinegar. Identify the compounds X and Y. Write the chemical equation of the reaction that takes place to form the compound Y.
9. Describe the mechanism of cleansing effect of soaps.
10. An organic compound A is widely used as a preservatives in pickles and has a molecular formula  $C_2H_4O_2$ . This compound reacts with Ethanol to form a sweet smelling compound B.
  - a. Identify the compound A?
  - b. Write the chemical equation for its reaction with Ethanol to form compound B?
  - c. How can we get compound A back from B?
  - d. Name the process and write the corresponding chemical equation? Which gas is produced when compound A reacts with washing soda? Write the chemical equation.

### BIOLOGY OUR ENVIRONMENT

1. What is functional unit of environment comprising of the living and non –living components called?
2. Name two natural and two artificial ecosystems.
3. Name the organisms belonging to the second and the fourth trophic levels in the food chain comprising the following:  
FROGS, PLANTS, SNAKES, HAWK, INSECTS
4. A food chain represents a unidirectional flow of X. What is X?
5. What is meant by primary, secondary and tertiary consumers? Give one example of each
6. We do not clean ponds or lakes but an aquarium needs to be cleaned periodically. Why?
7. Write down a food chain:-A). In the sea B). Which ends with humans C).With five links in it.
8. The number of malaria patients in a village increased tremendously when large numbers of frogs were exported from the village. What could be the cause for it?
9. If 5 joules of energy is available at producer level then how much energy will be transferred to the lion in the following food chain:  
PLANTS----->GOAT----->LION
10. What is UNEP? What steps has been taken by UNEP in 1987 to prevent too much damage to the ozone layer?

## **English**

Source: Together with practice sheets

Do the following in separate sheet and submit in a folder:

Comprehension passage No. 1 and 2 on page no. 24, 25

Article writing page no. 71 Q no 4

Grammar practice worksheet no. Editing / Omission page no. 126, 127, 128.

## हिन्दी

- प्र01 रवीन्द्र नाथ ठाकुर को नोबेल पुरस्कार पाने वाले पहले भारतीय का गौरव प्राप्त है। उनके विषय में जानकारी एकत्र कीजिए व ए 4 साइज़ शीट पर परियोजना तैयार करें। साथ ही नोबल पुरस्कार प्राप्त करने वाले अन्य महानुभावों के नाम लिखें।
- प्र02 'बदलते पर्यावरण का जिम्मेदार कौन? विकसित देश या विकासशील देश' विषय को अवकाश उपरान्त वाद-विवाद हेतु तैयार करें।
- प्र03 भारत के नक्शे पर वे स्थान अंकित कीजिए जहाँ चाय की पैदावर होती है। इन स्थानों से संबधित भौगोलिक स्थितियों और अलग-अलग जगह की चाय की क्या विशेषताएँ हैं इनका पता लगाकर ए3 साइज़ शीट पर तैयार करें।
- प्र04 देश की सीमा पर राष्ट्रहित में तैनात सैनिकों को किस प्रकार की समस्याओं का सामना करना पड़ता है? हम उनके प्रति अपनी कृतज्ञता किस प्रकार ज्ञापित कर सकते हैं?

## Information Technology

### Digital Presentation

- 11) Write steps for the following.
  - i) To insert audio or video clip in presentation
  - ii) To insert table in presentation
  - iii) To insert charts in presentation
- 12) What is the transition effect? Write steps to add it.
- 13) What is the animation effect? Write steps to add it.
- 14) What is a difference between transition and animation effect.
- 15) What is speaker note?
- 16) Write five tips to make effective presentation
- 17) What is handout? How to print it?