

St. Montfort School Patel Nagar, Bhopal
Summer Holiday Homework 2019-20
Class – X

ENG- SECTION B: WRITING SKILL

Q1. You are Sonal/ Samkit of Vidyanjali Public School , Lucknow . You have seen an advertisement in 'The Times of India ' related to new batches of 'Astronomy Club 'initiated by National Science Centre, Lucknow starting from the coming fortnight .You wish to join the Club. Write a letter to the Director, enquiring about the venue, duration, fee- structure, activities transportation etc. Invent other necessary details (100-120 words)

Q2. You are the In-charge of the Medical Section of Gyanodaya Public School , Nehru Vihar , Alwar Your stock of medicines is about to finish .Write a letter to the Director of Jambo Medicare, Delhi ordering medical items like glucose , crocin , bandages, tincture , pain-healers, ointments etc. Ask for discount on bulk order .Invent other necessary details. (100-120 words)

Q3. Drinking water is becoming a rare commodity. Industrial development is filling our rivers, seas and oceans with toxic pollutants which are a major threat to human health. You are deeply saddened to see water pollution as an appalling problem, which is powerful enough to lead the world on a path of destruction. Write a letter to the Editor of Express News to make the public aware about the causes of water pollution and also suggest the measures to prevent water pollution. (About 100 -120 words)

Q4. Nowhere in the world is found such a beauty, different and diversified climate, flora, fauna, religions, languages, dialects, dressing patterns, life style and rituals, like India. The Indian tourism and hospitality industry has emerged as one of the key drivers of growth among the services sector in India. Using the ideas from the unit 'Travel and Tourism' and your own ideas, write an article in about 100-120 words for your school magazine offering suggestions for promoting tourist industry. Give a suitable title.

Q5. Tourism being one of the biggest and fastest growing industries globally, affects the economic, socio-cultural, environmental and educational resources of nations. Improving tourism industry in India would thus lead to national development in many spheres. As Ankit/ Ankita, write a letter to the Editor of The Times of India expressing your views on the same. (100 -120 words)

Q6. Disposal of electronic goods, commonly termed as e-waste, in landfills lead to toxic substances such as lead, mercury etc. contaminating the land, air and water. It's high time that countries take. A stock of the situation and protect the environment. Write an article discussing the same. Also, suggest some solutions. You are Neha / Nitin from XYZ School. (100- 120 words)

ग्रीष्मावकाश गृहकार्य (हिन्दी पाठ्यक्रम 'अ')
कक्षा – दसवीं 2019

प्रश्न 1 'नेताजी का चश्मा' कहानी का सारांश लिखिए ।

प्रश्न 2 निम्नलिखित रसों की परिभाषा एवं एक – एक उदाहरण लिखिए –

वीर , श्रृंगार , हास्य , करुण , रौद्र

प्रश्न 3 'बेटी बचाओ , बेटी पढ़ाओ' विषय पर 25–50 शब्दों में विज्ञापन तैयार कीजिए ।

प्रश्न 4 गर्मी की छुट्टियों का सदुपयोग करने के संबंध में अपने छोटे भाई को पत्र लिखिए ।

Mathematics

Q1. Draw the graph obtain, the vertices of triangle so obtained, also determine its area.

$$2x - y - 2 = 0$$

$$4x + 3y - 24 = 0$$

$$Y + 4 = 0$$

Q2. Solve the following system of equation by substitution, elimination and cross

multiplication method and find the values of x and y

$$1) \frac{2x}{a} + \frac{y}{b} = 2 ; \quad \frac{x}{a} - \frac{y}{b} = 4$$

$$2) \frac{x}{10} + \frac{y}{5} + 1 = 15 ; \quad \frac{x}{8} - \frac{y}{6} = 15$$

Q3. Solve by reducible form

$$\frac{2}{x} + \frac{2}{3y} = \frac{1}{6} ; \quad \frac{3}{x} + \frac{2}{y} = 0$$

Q4. For what value of 'k' will the system of equations $x + 2y = 5$; $3x + ky - 15 = 0$ has unique solution and no solution.

Q5. If $\sin\theta = (a^2 - b^2)/(a^2 + b^2)$ Find the values of the other 5 trigonometric ratios

Q6. Geometrically find the values of $\sin 30^\circ$, $\cos 60^\circ$

Q7. Find the value of x in each of the following

$$1) \tan 3x = \sin 45^\circ \cos 45^\circ + \sin 30^\circ$$

$$2) \sin 2x = \sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ$$

Q8. A rhombus of side 20cm has two angle of 60° each. Find the length of the diagonals.

Q9. Prove that $\frac{1-\sin\theta}{1+\sin\theta} = (\sec\theta - \tan\theta)^2$

Q10. If $x = a\sin\theta$ and $y = b\tan\theta$ then prove that $a^2/x^2 - b^2/y^2 = 1$

CLASS-X (2019-2020)
LIST OF MAP ITEMS FOR SOCIAL SCIENCE

A. Subject - History: Outline Political Map of India

Chapter-3: Nationalism in India - (1918 - 1930).

For locating and labelling / Identification.

1. Indian National Congress Sessions:

a. Calcutta (Sep. 1920) b. Nagpur (Dec. 1920) c. Madras (1927)

2. Important Centres of Indian National Movement

(Non-cooperation and Civil Disobedience Movement)

- a. Champaran (Bihar) - Movement of Indigo Planters
- b. Kheda (Gujrat) - 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 Movement

B. Subject-Geography: Outline Political Map of India

Chapter 1: Resources and Development (Identification only)

a. Major soil Types.

Chapter 3: Water Resources (Locating and Labelling)

Dams:

- a. Salal b. Bhakra Nangal c. Tehri d. Rana Pratap Sagar
e. Sardar Sarovar f. Hirakud g. Nagarjuna Sagar h. Tungabhadra.

Note: The chapter 'Water Resources' to be assessed in the Periodic Tests only and will not be evaluated in Board Examination.

Chapter 4: Agriculture

Identification only

- (a) Major areas of Rice and Wheat. (b) Largest / 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

(V) Bauxite Deposits:

The Amarkantak plateau

Maikal hills

The plateau region of Bilaspur- Katni.

Orissa Panchpatmali deposits in Koraput district

(VI) Mica deposits:

The Chota Nagpur plateau.

Koderma Gaya - Hazaribagh belt of Jharkhand

Ajmer

Nellore mica belt

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) Iron and Steel Plants:

Burnpur	Durgapur	Bokaro	Jamshedpur	Raurkela
Bhilai	Vijaynagar			

(3) Software Technology Parks:

Mohali	Noida	Jaipur	Gandhinagar	Indore
Mumbai	Pune	Kolkata	Bhubaneswar	Vishakhapatnam
Hyderabad	Bangalore	Mysore	Chennai	Thiruvananthapuram
Bhadravati	Vishakhapatnam	Salem		

Chapter 7 Lifelines of National Economy.

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

National Highways:

NH-1	NH-2	NH-7
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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 (Rajiv Gandhi)	

PHYSICS

CLASS X

NCERT Book Chapter -12 , Back Exercise (Page No. 221- 222)

CLASS X Chemistry (SUMMER HOLIDAY HOME WORK)

Very short answer questions

1. Balance the following chemical equation:

(a) Lead Nitrate reacts with sulphuric acid to form precipitate of lead sulphate and nitric acid.

(b) Sodium hydroxide solution is treated with Acetic Acid to form Sodium Acetate and water.

2. Why do Fireflies glow at night?

3. Why do iron articles lose their Shine gradually?

4. State one industrial application of reduction.

5. Blue colour salt of copper sulphate becomes white on heating give reason.

6. What type of chemical reaction takes place when Silver Bromide is exposed to sunlight?

Short answer questions -I

7. Classify the following chemical reactions as exothermic or endothermic: a. Electrolysis of water

b. Burning of natural gas

c. Decomposition of calcium carbonate.

d. Burning of magnesium ribbon in the air.

8. What change will you observe if white silver chloride is placed in sunlight? Write an equation for the reaction and type of the reaction.

9. What happens chemically when quicklime is added to water?

10. Identify the type of chemical reaction taking place

(I) on mixing solution of potassium chloride with silver nitrate and insoluble white substance is formed.

(II) On heating green coloured ferrous sulphate crystals reddish brown solid is based on name of gas having odour of burning sulphur is observed.

Subject : BIOLOGY

NOTE: Holidays home work is to be done in fair copy.

Q1. Draw a well labeled diagram of the following-

1. Digestive system

2. Respiratory system

3. Vertical section of heart

4. Nephron

Q2. Prepare notes on the chapter OUR ENVIRONMENT (Covering all the topics of chapter)
