



# DELHI PUBLIC SCHOOL GAYA

ASSIGNMENT FOR DIWALI VACATION, SESSION 2018–19

CLASS – X

## ENGLISH

1. You are the In-charge of the Medical Section of ABC Public School, Nehru Place, Delhi. 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)
2. Write a short story beginning with...  
“It was around 10 p.m. I was returning home after attending my friend’s birthday party. All of a sudden...” (200 words). Supply a suitable title to the story.
3. “Only the wearer knows where the shoe pinches”. Elucidate the statement with reference to the story ‘The Letter’.
4. What are Anne’s views about the Laws that restrict the Jew’s freedom?

## HINDI

1. भारतीय राष्ट्रीय व्यवस्था के निर्माण में पर्व एवं त्योहारों का क्या योगदान है? लगभग 150 शब्दों में अपना विचार लिखिए।
2. अपने प्रिय साहित्यकार के बारे में जानकारी प्राप्त करते हुए एक परियोजना तैयार लिखिए।
3. यदि आपको किसी पहाड़ी जगह पर घूमने जाना हो तो आप कौन-सी जगह चुनेंगे? तर्क सहित उत्तर लिखिए।

## MATHEMATICS

1. Use Euclid’s division lemma to show that the cube of any positive integer is of the form  $9m, 9m + 1$  or  $9m + 8$ .
2. If the zeroes of the polynomial  $x^3 - 3x^2 + x + 1$  are  $a - b, a, a + b$ , find  $a$  and  $b$ .
3. Solve :  
 $6x + 3y = 6xy$   
 $2x + 4y = 5xy$
4. In a  $\Delta ABC$ ,  $\angle C = 3\angle B = 2(\angle A + \angle B)$  find the three angles.
5. Which term of AP :  
121, 117, 113, ... is its first negative term?
6. State and prove Pythagoras theorem.
7. State and prove converse of Pythagoras theorem.
8. Prove that the lengths of tangents drawn from an external point to a circle are equal.
9. Prove that the ratio of areas of two similar triangles is equal to the square of the ratio of their corresponding sides.
10. State and prove BPT theorem.

## SCIENCE

### Physics

1. A 6A resistance wire is doubled up by folding. Calculate the new resistance of the wire.
2. An electric bulb is rated 220V and 100W. What will be the power consumed when it is operated on 110V.
3. What is Myopia and Hypermetropia? Draw the ray diagram to show defected eye and correction used for both.

## **Chemistry**

1. Name the reaction which is commonly used in the conversion of vegetable oils to fats. Explain the reaction involved in detail.
2. Intake of small quantity of methanol can be lethal. Comment.
3. How is ethane prepared from ethanol? Give the reaction involved in it.

## **Biology**

1. List two advantages associated with water harvesting at the community level.
2. Give an account of the four stakeholders of forest.
3. What is meant by sustainable management? The environmentalists are insisting upon “sustainable natural resource management”. State its four advantages.

## **SOCIAL SCIENCE**

### **History and Civics**

1. What was the impact of the First World War on India?
2. Why did Non-Cooperation Movement gradually slow down in cities? Explain.
3. Explain the role of women in the civil disobedience movement.
4. What were the views given by Gandhiji regarding religion and politics?
5. Discuss the reasons for the decline of the caste system.

### **Geography**

1. On an outline map of India locate the following:
  - i. Cotton Textile Industries: Mumbai, Indore, Ahmedabad, Surat, Kanpur, Coimbatore, Madurai
  - ii. Iron and Steel Plants: Burnpur, Durgapur, Bokaro, Jamshedpur, Rourkela, Bhilai, Vijaynagar.
2. Collect information on these National Highways : NH-1, NH-2, NH-7
3. Write a note on Industrial Development of India.

### **Economics**

#### **CHAPTER-1**

1. What are the different parameters of comparison amongst the countries of the world in terms of development?
2. Examine the need for sustainable development in the light of possible exhaustion of natural resources such as crude oil.
3. In what manner the third world countries are paying the price for the prosperity of rich and developed nations? Quote the example of Abidjan in this respect.
4. Why higher income may not necessarily mean higher standard of living also? What is the role of public facilities in enhancing quality of life?
5. Can average income be considered a true reflection of a country's level of development if not, why?
6. What is the method of calculating Body Mass Index (BMI)? Why it is important to calculate?
7. In what respects is the criterion used by the UNDP for measuring development different from the one used by the World Bank?

#### **CHAPTER-2**

1. What is the reason for including agriculture and allied sectors in the primary sector? How service sector is different from primary sector?
2. Explain the method to calculate a county's GDP so as to avoid the error of double calculation?

3. Describe the concept of jobless growth keeping service sector growth in India as the point of reference.
4. What are the different ways to address the problem of unemployment in India especially in the rural area?
5. Which kind of economic activities fall under the responsibility of government? What is the reason for adopting this policy?
6. Compare contrast between organized and unorganized sector.
7. What are the different kinds of unemployment in rural India? Why open unemployment is rather uncommon?

### **CHAPTER-3**

1. Why currency is considered a medium of exchange in economic transactions? What is the practical difficulty in not using money as an intermediate object?
2. What are the different aspects of terms of credit? What is its need?
3. Explain the merits and demerits of formal and informal sector credit. Why informal sector loans are common with the poor households? Describe its negative aspects.
4. List the different uses for which the SHGs provided loans to the poor. Explain a typical way of functioning of SHG.
5. What are cooperatives? In what manner 'Krishak' cooperative is helping the farmers of Sonpur?
6. Analyse the role of credit for development, especially during :
  - (a) Cropping season
  - (b) Festive season

### **FIT**

1. Prepare a practical file copy to include the topics as given below:
  - (a) Introduction to XML
  - (b) Difference between HTML and XML
  - (c) Parts of XML document(Prolog and data instance)
  - (d) Process of validation(Write in brief)
  - (e) Two separate programs on XML tree structures based on two different topics

[NOTE: While making the file, follow the instructions:

  - (i) Don't make any new file copy; continue with the same file where database and HTML work have been made previously.
  - (ii) Each tree structure must be embedded along with suitable coding.
  - (iii) Attach print outs wherever applicable.
  - (iv) Bibliography
  - (v) Make one single index in the beginning of the file copy for database, HTML and XML. ]

### **SANSKRIT**

1. दीपावली किमर्थम् मन्यन्ते इति विषयोपरी पञ्चाशत् शब्दैः अनुच्छेदं लिखत ।
2. भगवतः सूर्यस्य पर्व (षष्ठी) विशेषतः कुत्र किमर्थम् च मन्यन्ते इति विषयामाघृत्य पञ्चाशत् शब्दैः अनुच्छेदं लिखत ।
3. दीपावली षष्ठी पर्वयोः चित्राणि एकत्री कृत्वा एकां चित्र मञ्जूषां रचयत ।

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