

# ADARSH PUBLIC SCHOOL

## HOLIDAYS' ASSIGNMENT

### SESSION 2015-16

#### CLASS-XI

#### ENGLISH

1. Read the Novel – The Canterville Ghost. Write the pen – portrait of your favourite characters (Any Three).
2. Write the formats of the following neatly :
  - (a) NOTICE
  - (b) ARTICLE
  - (c) SPEECH
  - (d) REPORT WRITING
  - (e) OFFICIAL AND BUSINESS LETTERDo one question based on each of the topics mentioned above.
3. Prepare a Notice inviting students to contribute generously for the quake hit victims of Nepal.
4. During the rainy season, there is a rise in the number of dengue cases in the city. Prepare a Poster on A-4 sheet, issued by the Health Department, suggesting ways in which one can prevent this deadly disease.
5. Write a Letter to the Editor expressing your opinion on
  - (a) Increasing number of crimes.
  - (b) Increasing environmental pollution.

**NOTE : Questions 1, 2, 3 & 5 should be done in English Grammar Copies.**

#### MATHS

1. Do all the examples of chapter – 3 Trigonometry.
2. Do the following as directed :
  - (i) Evaluate  $\sqrt{2} \sin 135^\circ \cos 210^\circ \tan 240^\circ \cot 300^\circ \sec 330^\circ$
  - (ii) Find  $\tan 15^\circ$  and hence show that  $\tan 15^\circ + \cot 15^\circ = 4$
  - (iii) Prove that  $\frac{\cos 135^\circ - \cos 120^\circ}{\cos 135^\circ + \cos 120^\circ} = 3 - 2\sqrt{2}$
  - (iv) If  $\tan 25^\circ = x$ , prove that

$$\frac{\tan 155^\circ - \tan 115^\circ}{1 + \tan 155^\circ \tan 115^\circ} = \frac{1-x^2}{2x}$$

- (v) Evaluate :

$$\tan \frac{\pi}{12} \tan \frac{\pi}{16} \tan \frac{5\pi}{12} \tan \frac{7\pi}{16}$$

- (vi) Find the general solutions of following

- (a)  $\tan 3x = \cot x$

(b)  $\tan^2 x - \sqrt{3}\tan x = 0$

(c)  $\cos 3x + \cos x - 2\cos 2x = 0$

(d)  $\sin 9x = \sin x$

(e)  $4\cos^2 x - 4\sin x - 1 = 0$

3. Make one chart on any mathematical topic on pastel sheet.

**Question 3 is only for commerce with maths students.**

## PHYSICS

1. Do NCERT Questions of chapter 3 (Motion in Straight Line).

2. Do numericals in Assignment register as discussed in class.

3. To encourage the scientific aptitude among the Learners, make poster on the topic 'Science and Society' as discussed in class.

## CHEMISTRY

Solve the Assignment involving NCERT based questions and extra questions given from 'structure of atom'.

## COMPUTER SCIENCE

1. Convert the following numbers to their equivalents as stated.

(a)  $342_8 = \text{_____}_2$

(b)  $675_{10} = \text{_____}_8$

(c)  $896_{10} = \text{_____}_{16}$

(d)  $423_8 = \text{_____}_{10}$

(e)  $A4C_{16} = \text{_____}_8$

(f)  $203_8 = \text{_____}_{16}$

2. Find the 2's complement of the following

(a) -49

(b) -64

(c) -17

3. Write the following programs in register

(a) To print the sum of two numbers.

(b) To print area of a triangle.

(c) To print area & circumference of circle by taking radius as input.

(d) To print different messages in a well formatted manner.

## BIOLOGY

Do NCERT Questions of chapter 4 and do the assignment given in the class.

## **BUSINESS STUDIES**

1. Choose a locally operated trading or business unit. Find out the kind of risks it faces in business and the way it deals with them.
2. Collect the data on two socially responsible enterprises and write a paragraph on each of them, mentioning the kind of projects they have taken up for society.
3. Enquire and prepare a project report on the ideology and working of a partnership firm or a co-operative society based on the following criteria – Nature of business, size of business measured in terms of capital employed, no. of employees, sales turnover, problems faced, incentive decision making pattern, reason behind choice of a particular form.
4. Complete the application based questions of chapter 2 as mentioned in NCERT.

## **ACCOUNTANCY**

1. Collect specimen of cash memo, debit note, cheque, pay – in slip and receipt.
2. Complete the given assignment.
3. Do Q.No. – 9, 13, 17, 26 and 29 from chapter -5.

## **ECONOMICS**

1. On a map of India mark the cotton textiles and jute mills that existed at the time of independence.
2. Prepare a list of items that were exported from and imported into India during the British Rule.
3. Prepare a pie chart for the occupational structure in India at the time of independence.
4. Compare the map of British India with that of independent India and find out the areas that became part of Pakistan.
5. Construct a pie chart for the following table on sectoral contribution to GDP and comment.

Sector	1950-51	1990-91
Agriculture	59.0	34.9
Industry	13.0	24.6
Services	28.0	40.5

6. Write the answer of Question Numbers 1,4,5 & 19 of lesson 2 (India Economy 1950-1990).

## **MULTIMEDIA & WEB TECHNOLOGY**

1. Prepare a practical file with the following web pages, using text and images.
  - a) A web page on our school.
  - b) India against corruption.

- c) Disaster Management.
- d) Online Shopping.
- e) Digital Classrooms.

**Note : Make use of images, lists, hyperlinks to design the web pages.**

Write code on A4 sized ruled sheets (White) and paste the coloured printout of the Web Page.

## **PSYCHOLOGY**

1. Do NCERT Questions / Answers of chapter 1 and 2.
2. Read the book 'SECRET' and describe what you have learned from this book.
3. Do activity 2.2 and 2.3 given in NCERT Book Page no. 32 and 35 respectively.

## **POLITICAL SCIENCE**

1. Write about the Assembly election of Delhi 2015 with facts & figures.
2. Write a note on child exploitation and women empowerment with illustrations.
3. Read the cartoon given in page 89 and explain.
4. Mark on the political map of India, states having bicameral legislature.
5. Write about class Ganga Project initiated by Prime Minister Narendra Modi.

## **हिन्दी**

1. निम्नलिखित विषयों पर निबंध लिखिए /

क. अंतरिक्ष विज्ञान और भारत

ख. धर्म तोड़ता नहीं, जोड़ता है

ग. महानगरों का जीवन

घ. मेरे सपनों का भारत

2. कवि कबीर, सूरदास देव व पद्माकर के जीवन व रचनाओं का संक्षिप्त परिचय देते हुए उनकी काव्यगत विशेषताओं का उल्लेख कीजिए /

3. क. भारतीय रेलों में स्वच्छता व शिष्टता के अभाव पर रेलमंत्री, भारत सरकार का ध्यान आकृष्ट करते हुए उन्हें एक पत्र लिखिए और समाधान का एक उपाय भी सुझाएँ /

ख. आपके क्षेत्र में अपराध बढ़ने लगे हैं उनकी रोकथाम के लिए थानाध्यक्ष को पत्र लिखिए /

## **PHYSICAL EDUCATION**

1. Read chapter – 4 ‘Yoga’ thoroughly.
2. Write an article on “Essential Elements of Yoga”.

## **GENERAL KNOWLEDGE**

Write atleast 20 latest happenings that took place during the summer holidays in General Knowledge Copy.

## **HOME SCIENCE**

1. Make a Nutritious Diet Plan for a working woman with the caloric count.  
Write it in Tabular Form.
  2. Write any two recipes of cool drinks which helps in Heat Stroke. Paste relevant picture.
- Do it in your Home Science Practical File.

**Note : 1. Prepare Model/Poster/Slogan as discussed in the class.**  
**2. Revise whole syllabus covered in April & May.**

*Have a Fun-Filled Vacation !*