

## Holiday Homework 2010

### Class – XI

#### English

1. Read any two of the following books and come prepared for a presentation:
  - The White Tiger- Aravind Adiga
  - Wuthering Heights- Emily Bronte
  - The God of Small Things- Arundhati Roy
  - The Elephant, The Tiger and The Cellphone- Shashi Tharoor
  - The Music Room – Namita Devdayal
  - The Fountainhead- Ayn Rand
  - Picture of Dorian Gray – Oscar Wilde
2. Choose any piece of music or a movie that you feel can provide a valuable learning experience and hence can be included in your syllabus. Prepare a project especially discussing the reasons which motivated you to choose that particular music/film.

#### Physics

1. Worksheet of ' MOTION IN 1-D' (given to the students).
2. Practical file work of Experiment 1 and 2.
3. Working or static models based on topics in Physics of class XI level or above.  
The models can be made individually or in groups of 2-3 students (as discussed in the class).

#### Chemistry

To make a power point presentation with at least 30 relevant slides on any current discoveries, inventions, discussion in chemistry

Some of the suggested topics are:

- |                           |                                           |
|---------------------------|-------------------------------------------|
| 1) Petrochemicals         | 5) Polymer technology and its application |
| 2) Inks                   | 6) Extraction of radioactive elements     |
| 3) Chemistry in cosmetics | 7) Natural Crystals- Gem Stones           |
| 4) Drug designing         | 8) Nanotechnology in Chemistry            |

#### Mathematics

Make a project or a presentation on any one of the following topics:

- |                        |                                      |
|------------------------|--------------------------------------|
| 1. Sets                | 7. Application of Statistics         |
| 2. Probability         | 8. Symmetry                          |
| 3. Sequence and Series | 9. Mathematics in Ancient India      |
| 4. The Golden Ratio    | 10. Life and Works of Mathematicians |
| 5. Optical Illusion    | 11. Any other topic of your choice   |
| 6. Chaos Theory        |                                      |

#### Biology

1. PROJECT WORK: Collection for Herbarium
2. Completion of File work ( Classification practicals, Tissues)

## **Computer Science**

PowerPoint Presentation on ANY ONE of the following topics:

1. e-Learning
2. e-Governance
3. e-Commerce
4. IPR issues
5. Open Source Software

## **Economics**

Project on awareness of any social issue

### **Instructions:**

1. Sample Size-10
2. Prepare a questionnaire with minimum 10 questions & maximum 15 questions.
3. Survey – Use the direct personal interview method.
4. Presentation of the information & conclusion drawn from it.

Project report must be hand written.

Date of submission : 28<sup>th</sup> June 2010

## **History**

ACTIVITY – PROJECT WORK – POWER POINT PRESENTATION.

GUIDELINES: FOR A GROUP OF TWO MEMBER TEAM

1. TOPICS AND THEMES FOR PROJECT WORK ON WORLD HISTORY.
2. Cover page/slide showing the Project Title.
3. List of contents (approximately 20 slides).
4. Acknowledgement: acknowledging the institutions, offices and libraries visited, website, etc.
5. Project overview: Purpose, aim and methodology and experiences while doing the project.
6. Slides with relevant headings.
7. Summary and conclusions based on findings.
8. Bibliography should have details.

TEACHER'S ASSESSMENT will be based on the content.

- (i) Accuracy and originality.
- (ii) Presentation and creativity.
- (iii) Process of project completion.
- (iv) Overall remarks.

## TOPICS

1. Importance of Time line in understanding world history with illustrations, e.g., graphics etc.
2. Precursors of modern Human beings (illustration, pictures, historical finds etc.)
3. Early man: Making Tools, (e.g., drawings, illustrations, pictures etc.)
4. Development of writing in Mesopotamia and comparison made with Egyptian, Chinese and Indus Valley Civilization.
5. Development of Roman Empire – Architecture, sculpture, type of Government.
6. Cultural development of Islamic Lands.
7. Achievement of Genghis Khan.
8. The Three Orders. (See page 137)
9. Contribution of the Arabs (Science or Philosophy)
10. Achievements of the Maya and Aztecs.
11. Voyages of Exploration by European (General Topic).
12. The Industrial Revolution.
13. Invention during the Industrial Revolution.
14. How has Japan maintained ‘Westernisation’ and ‘ Tradition’.
15. The Rise of the Communist Party of China.
16. Importance of ‘Time – Line’ with illustrations/ e.g.
17. Crusades.
18. The System of writing, (a general account) with special reference to Mesopotamia/Indus Valley.
19. Importance of studying History as a subject.
20. Importance of studying Maps in understanding History.

## **Business Studies**

STUDENTS ARE TO COMPLETE THE PROJECT WORK (details given in the class)

## **Accountancy**

WORK SHEET GIVEN IN THE CLASS TO BE COMPLETED

## **Political Science**

### BEING A LEADER

Touch upon the following points -:

- India –a vibrant nation with one of the largest you the populations in the world. Future leaders to come from this group.

### CONTENT

- What is leadership?
- What a leader must do to be effective?
  - a) Manage resources optionally
  - b) Lead by example

- c) Be humble
  - d) Appreciate friends and peers
  - e) Have a clear and consistent vision
  - f) Be a team player : listen, appreciate, value, opinions
  - g) Create a positive , comforting ambience
  - h) Admit your mistakes but don't make a habit of committing mistakes
  - i) To be stable when faced with the winds of turmoil
  - j) Encourage the followers to tell you what you need to know, instead of what you want to hear
  - k) Focus on developing qualities that can make a difference to people and nations alike.
- Evaluation: role models (from India and other countries)

Make an interesting, visually appealing project. Be original and creative to make it an academically enriching experience.