

NORTH-EX PUBLIC SCHOOL
(Senior Secondary, Affiliated To CBSE)
School Block, Jain Nagar, Sector-38, Rohini, Delhi-81

WINTER HOLIDAY HOMEWORK

CLASS X

English

1. As Manager, Daffodils International School, Bengaluru, place an order for school furniture (at least 4 items). Write a letter to Furnibest and Co., Furniture Manufacturers, Gwalior.
2. The following table shows details about the internet activities for six categories for different age groups. Write an analytical paragraph for the table given in around 150-200 words.

Internet Activities by Age Group

| Activity% | Age group | | | | | | |
|----------------------|-----------|-----|-----|-----|-----|-----|-----|
| | Teens | 20s | 30s | 40s | 50s | 60s | 70+ |
| Get News | 76 | 73 | 76 | 75 | 71 | 74 | 70 |
| Online games | 81 | 54 | 37 | 29 | 25 | 25 | 32 |
| Downloads | 52 | 46 | 27 | 15 | 13 | 8 | 6 |
| Product research | 0 | 79 | 80 | 83 | 79 | 74 | 70 |
| Buying a product | 43 | 68 | 69 | 68 | 67 | 65 | 41 |
| Searching for people | 5 | 31 | 23 | 23 | 24 | 29 | 27 |

3. To practice the grammar exercises from the worksheet given.
4. To complete English Art Integrated Project.
5. To learn and revise PT-2 syllabus.

कक्षा दसवीं

प्रश्न 1. 'कर चले हम फिदा' कविता का मुख्य संदेश क्या है? अपने शब्दों में लिखिए।

प्रश्न 2. 'झेन के देन' पाठ के आधार पर बताइए कि जापान के लोग मानसिक रोगों से ग्रस्त क्यों हैं? इसे दूर करने के लिए पारंपरिक चाय पीने की विधि अपनाकर क्या संदेश दिया गया है?

प्रश्न 3. वजीर अली की चारित्रिक विशेषताएं बताइए।

प्रश्न 4. पाठ 'टोपी शुक्ला' के आधार पर बताइए कि मित्रता का आधार क्या होना चाहिए?

प्रश्न 5. 'वायु प्रदूषण' विषय पर लगभग 100 शब्दों में अनुच्छेद लिखिए।

SCIENCE (X)

1. Classify following as parts of male and female reproductive systems Ovary, sperm, vas deferens, Uterus, fallopian tube tests, Penis, Cervix
2. Name the following where a) Sperms are produced b) Fertilisation takes place c) IUCD's are implanted d) On maturation ovule develops into it e) Name one bisexual flower.
3. a) What are dominant and recessive traits?
b) Is it possible that a trait is inherited but may not be expressed in the next generation? Give a suitable example to justify this statement.
4. What is methane Draw the election dot structure. Name the type of bond formed in this compound they one such compounds
5. (a) Write the function of each of the following parts of human eye: (i) Cornea (ii) Iris (iii) Crystalline (iv) Ciliary muscles
(b) Why does the sun appear reddish early in the morning? Will this phenomenon be observed by an astronaut on the Moon? Give reason to justify your answer.

Social Science

- Q1. Explain the role of Technology in enabling globalization.
- Q2. Why India opt for Multiparty system? Was it better than others? Explain with suitable reasons.
- Q3. Why should we shift to non-conventional energy resources?
- Q4. Write a **Debate** on Roadways Vs Railways. (Support any one with suitable arguments)
- Q5. **Project work**

* Every student has to **compulsorily** undertake any one project from the following:-

Consumer Awareness

OR

Social Issues

OR

Sustainable Development

* **All work to be done in Test registers and Submit your project file separately as creative as you can.**

MATHS

1. A group of students of class X visited India Gate on an education trip. The teacher and students had interest in history as well. The teacher narrated that India Gate, official name Delhi Memorial, originally called All- India War Memorial, monumental sandstone arch in New Delhi, dedicated to the troops of British India who died in wars fought between 1914 and 1919. The teacher also said that India Gate, which is located at the eastern end of the Rajpath (formerly called the Kingsway), is about 138 feet (42 metres) in height.



- a. What is the angle of elevation if they are standing at a distance of 42m away from the monument?
 - b. They want to see the tower at an angle of 60° . So, they want to know the distance where they should stand and hence find the distance.
 - c. If the altitude of the sun is at 60° , then the height of the vertical tower that will cast a shadow of length 20m will be?
 - d. The ratio of the length of a rod and its shadow 1:1. The angle of elevation of the sun is?
2. Find the mean for the following data by applying all the 3 methods.

| Classes | Frequency |
|---------|-----------|
| 0-10 | 5 |
| 10-20 | 8 |
| 20-30 | 15 |
| 30-40 | 20 |
| 40-50 | 14 |
| 50-60 | 8 |
| 60-70 | 5 |

3. A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14cm and the total height of the vessel is 13cm. find the inner surface area of the vessel.

4. In a class test ,the sum of shefali's marks in Mathematics and English is 30.Had she got 2 marks more in Mathematics and 3 marks less in English the product of their marks would have been 210.Find her marks in the two subjects.
5. complete lab manual , activities as given in the class.

Computer Science

- Q1. Write the shortcut keys A to Z in test register .
- Q2. Write the difference between static web page and dynamic web page with diagram in test register.
- Q3. Create CSS (HTML)design using background shorthand property topic "The Tale of GENJI" from Pg no. 184-185.
- Q4. Write any 5 points with explanation related to the NETIQUETTES in MS-Word.
- Q5. Prepare practical file with HTML program .

Note: Do all the practical work in the file printout form.
Revise PT-2 syllabus completely.