

D.A.V PUBLIC SCHOOL

ASHOK VIHAR , PH-IV, DELHI

HOLIDAYS HOMEWORK

CLASS-XI

SESSION (2018-19)

ECONOMICS

- Learn chapter-1 and chapter-2 of statistics.
- You want to do a research on the popularity of multigrain wheat flour. Design a suitable Questionnaire for collecting this Information.

ACCOUNTANCY

- Learning of chapter 1 and 2 and 3 as they are theory.
- Practice and assignment of accounting equation rules of Dr and Cr.
- Brief introduction of file work.

BUSINESS STUDIES

- Collect articles from business magazines or newspapers and paste them In your register (2 articles per week).
- Collect information on any one business house which is executing social responsibility ad paste it in the registers.
- Revise chapter 1 and 2 for the unit test.

MATHS

- Complete the assignment given on 'sequence and series'.
- Learn all formulae of trigonometric functions.

ASSIGNMENT 1
MATHEMATICS
CLASS XI
SEQUENCE AND SERIES

1. If m times m^{th} term of an A.P is equal to n times n^{th} term of it then find $(m+n)^{\text{th}}$ term.
2. If the 12th term of an A.P is -13 & the sum of first four terms is 24, what is the sum of first 10 terms?
3. Find the sum of first 24 terms of an A.P; a_1, a_2, a_3, \dots , if it is known that $a_1 + a_5 + a_{10} + a_{15} + a_{20} + a_{24} = 225$
4. If S is the sum of finite A.P whose first term is a and last term is l so that its common difference is $\frac{l^2 - a^2}{2S - a - l}$
5. In an A.P $S_3 = 6$ $S_6 = 3$ prove that $2(2n+1)S_{n+4} = (n+4)S_{2n+1}$
6. Insert 3 A.M's b/w 3 & 19
7. There are n arithmetic means b/w 3 & 17, the ratio of last mean and first mean is 3:1. Find n .
8. The sum of two numbers is $\frac{13}{6}$. An even number of arithmetic means are inserted between them and their sum exceeds their number by 1. Find the number of means inserted.
9. If roots of the equation $a(b-c)x^2 + b(c-a)x + c(a-b) = 0$ are equal, show that $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are in A.P.
10. The sum of four numbers of A.P is 4 and their product is 385. Find the numbers?
11. If a, b, c are in A.P then prove that $(ab)^{-1}, (ca)^{-1}$ & $(bc)^{-1}$ are in A.P
12. If $\frac{b+c-a}{a}, \frac{c+a-b}{b}, \frac{a+b-c}{c}$ are in A.P then prove that $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are in A.P.
13. Find the sum of the series $(a+b) + (a^2+2b) + (a^3+3b) \dots$ to n terms.
14. How many terms of G.P $3, \frac{3}{2}, \frac{3}{4} \dots$ are needed to give the sum of $\frac{3096}{512}$?
15. If $\frac{1}{1-l} = v$ prove that $v + v^2 + v^3 + \dots + v^n = \frac{1-v^{n+1}}{l}$
16. The A.M b/w two distant positive numbers is twice the G.M b/w them, find the ratio of greater to the smaller.
17. If one geometric mean G and two arithmetic means a_1 & a_2 be inserted b/w two given numbers then prove that $G^2 = (2A_1 - A_2)(2A_2 - A_1)$.
18. The product of first three terms of G.P is 1000. If we add 6 to the second term and 7 to its third term, the three terms form an A.P. find the terms of the G.P?
19. Find the n th term and the sum of n terms of the series $6+9+21+261+\dots$
20. The product of three numbers in A.P is 224 and the largest is 7 times the smallest. Find the numbers.

MARKETING

- Conduct household or market survey and report on the buying motive of consumers as regards to price and quality, consumers being classified by age, sex and income given certain selected products.

HISTORY

Project work on any one historical city of India.

Complete question/answers of L-4.

Learn L-1 to L-3 for unit test.

GEOGRAPHY

- Revise all three lessons of Indian geography.
- Make all the maps in your register related with the lessons.

POLITICAL SCIENCE

- Revise all the chapters of 1-Book
- Collect 7 important latest events (news) related to –Judiciary, Executive and paste In your class register
- Do assignments of chapters 2,3and4.

ENGLISH

- Read ‘**Canteville Ghost**’ and write about its major characters.
- Write articles on five latest topics.
- Paste the display posters/classified advertisement in your notebooks (Newspaper activity)

PHYSICS

- Complete assignments of Unit 1,2 in assignment Notebook
- Complete your Physics Practical Project. The topics are already discussed.

CHEMISTRY

Chapter related Assignment

Learn the periodic table

Prepare PPT on the topic Environment chemistry

BIOLOGY

- Do all the questions of chapters 1to 4 and 8to 10 from NCERT Exemplar in notebook.
- 2. Practice all the diagrams of the chapters done in the class.
- 3. Complete your practical file.

PHYSICAL EDUCATION

- Complete file work
- Reading of chapters
- Yoga
- Test and measurement and evaluation

COMMERCIAL ARTS

- Craft work –chandelier
- Art- portrait

MUSIC

- Made the collage of Indian classical musicians (size-A3)
- Write at least 10 quotations on music ad write one life sketch on any one of the musician(Miyan Tansen or V.N. Bhatkhande)

COMPUTER SCIENCE

Do all programs till **if-construct** from the file “LIST OF PRACTICALS “
(SEND TO YOUR MAIL IDs)

HOME SCIENCE

1. Tie the cotton samples for dyeing
2. Complete the file with project work