

**HOLIDAY HOMEWORK 2018-19**
**Class: XI A**

This year, your holiday homework is a fun mix of all the aspects of learning. It has been designed to ensure that you enjoy and learn at the same time. Special attention has been taken to ensure that you use your creativity, your innovative ideas and your imagination to shape your holiday homework into fantastic ‘creations’. So enjoy your holidays spending quality times with your near and dear ones and devote sometimes to learn new things.

**General Instructions:**

- Holiday Homework of all subjects to be done in **separate Stick Files** (only).
- The areas to be covered are suggested below. You can of course use your creativity and innovation for new ideas too!
- Credit will be awarded to original photographs/ drawings, illustrations and creative use of materials.
- Holiday Homework needs to be submitted on 10<sup>th</sup> July 2018.
- Holiday Homework needs to be developed and presented in this order:
  - Cover page showing title, student information, school and academic year and parent’s signature.
  - List of contents with page numbers.
  - The last page should have Bibliography/ Sources of information from where you have collected your information.

**Subject: English**

Watch either of the following movies and write a movie review in about 250-300 words covering the following aspects: About the Cast, About the Director, Synopsis, and Review of the Movie.

*Dead Poet’s Society (1989)*

**OR**

*A Beautiful Mind (2001)*

**Subject: Mathematics**

1. Solve. Show the graph of the solutions on the number line
2. Solve. Show the graph of the solutions on the number line
3. Solve. Show the graph of the solutions on the number line
4. John needs a minimum of 360 marks in four tests in English course to obtain an A grade. On his first three tests, he scored 88, 96, 79 marks. What should be his score in the fourth test so that he can make an A grade?
5. To receive grade A in a course, one must obtain an average of 90 marks or more in five examinations (each of 100 marks). If Sanjai’s marks in first four examinations are 86,92,94 and 95, find minimum marks that sanjai must obtain in fifth examination to get grade A in the course

Ans: atleast 82

$$6. \frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \frac{1}{3 \cdot 4} + \dots + \frac{1}{n(n+1)} = \frac{n}{n+1}, \text{ where } n \geq 1$$

$$7. \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots + \frac{1}{2^n} = 1 - \frac{1}{2^n}$$

$$8. \frac{1}{2 \cdot 5} + \frac{1}{5 \cdot 8} + \frac{1}{8 \cdot 11} + \dots + \frac{1}{(3n-1)(3n+2)} = \frac{n}{(6n+4)}$$

$$9. \frac{1}{1 \cdot 2 \cdot 3} + \frac{1}{2 \cdot 3 \cdot 4} + \frac{1}{3 \cdot 4 \cdot 5} + \dots + \frac{1}{n(n+1)(n+2)} = \frac{n(n+3)}{4(n+1)(n+2)}$$

10.  $10^{2n-1} + 1$  is divisible by 11                      14.  $10^n + 3 \cdot 4^{n+2} + 5$  is divisible by 9
11.  $41^n - 14^n$  is divisible by 27                      15.  $3^{2n+2} - 8n - 9$  is divisible by 8
12.  $x^{2n} - y^{2n}$  is divisible by (x+y)                      16.  $6^{n+2} + 7^{2n+1}$  is divisible by 43
13.  $n(n+1)(n+2)$  is a multiple of 6                      17.  $n(n+1)(n+5)$  is a multiple of 3
18. Let  $U = \{a, b, c, d, e, f, g, h, I, j\}$ ,  $A = \{a, b, c\}$ ,  $B = \{d, e, f, g\}$ ,  $C = \{a, c, e, g, I\}$  and  $D = \{f, g, h\}$ . Find the following
- (i)  $(B \cup C)'$     (ii)  $(B \cap C)'$     (iii)  $(B \cup D)'$     (iv)  $(A - B)'$
- (v)  $(B - C)'$     (vi)  $(D - C)'$     (vii)  $(C \cap D)'$     (viii)  $(C - D)'$
19. Given,  $A = \{1, 2, \dots, 11\}$ ,  $B = \{1, 3, 5, \dots, 9\}$  and  $C = \{2, 3, 5, 7, 11\}$ . Verify the following for the above sets:
- (i)  $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$                       (ii)  $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
20. Verify the following by using Venn diagram:
- (i)  $A - (B \cap C) = (A - B) \cup (A - C)$                       (ii)  $A - (B \cup C) = (A - B) \cap (A - C)$
21. In a committee, 50 people speak French, 20 speak Spanish and 10 speak both Spanish and French. How many speak at least one of these two languages
22. In a survey of 600 students in a school, 150 students were found to be taking tea and 225 taking coffee, 10 were taking both tea and coffee. Find how many students were taking neither tea nor coffee?
23. In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper I, 9 read both H and I, 11 read both H and T, 8 read both T and I, 3 read all three newspapers.
- (i) Find the number of people who read at least one of the newspapers
- (ii) Find the number of people who read none of the newspapers
24. In a survey it was found that 21 people liked product A, 26 liked product B and 29 liked product C. If 14 people liked products A and B, 12 people liked products A and C, 14 people liked products B and C and 8 liked all three products. Find how many liked product C only.                      Ans: 11

**Subject: Accountancy**

Draft questions containing a minimum of 50 transactions and Journalize all these transactions and prepare a file.

**Subject: Business Studies**

**Project:** Case study on a product (Complete project should be handwritten; pictures can be printed in color or black and white. Use same color/design project papers throughout the project)

Take a product having seasonal growth and regular demand with which students can relate. For example,

- Apples from Himachal Pradesh, Kashmir.
- Oranges from Nagpur,
- Mangoes from Maharashtra/U.P./Bihar/Andhra Pradesh etc.
- Strawberries from Panchgani,
- Alivora from Rajasthan,
- Walnuts/almonds from Kashmir,
- Jackfruit from South,
- Guavas from Allahbad,
- Fishes from coastal areas.

Students may develop a Case Study on the following lines:

- (i) Research for change in price of the product. For example, apples in Himachal Pradesh during plucking and non-plucking season.
- (ii) Effect on prices in the absence of effective transport system.
- (iii) Effect on prices in the absence of suitable warehouse facilities.
- (iv) Duties performed by the warehouses.

(v) Demand and supply situation of the product during harvesting season, prices near the place of origin and away.

Students may find out the importance of producing and selling these products and their processed items along with the roles of Transport, Warehousing, Advertising, Banking, Insurance, Packaging, Wholesale selling, Retailing, Co-operative farming, Co-operative marketing etc.

**OR**

**Project:** Aids to trade.

Taking any one AIDS TO TRADE, for example Insurance and gathering information on following aspects:

1. History of Insurance Lloyd's contribution.
2. Development of regulatory Mechanism.
3. Insurance Companies in India
4. Principles of Insurance.
5. Types of Insurance. Importance of insurance to the businessmen.
6. Benefits of crop, orchards, animal and poultry insurance to the farmers.
7. Terminologies used (premium, face value, market value, maturity value, surrender value) and their meanings
8. Anecdotes and interesting cases of insurance. Reference of films depicting people committing fraudulent acts with insurance companies.
9. Careers in Insurance.

Following essentials are required to be fulfilled for its preparation and submission.

1. The total project will be in a file format, consisting of the recordings of the value of shares and the graphs.
2. The project will be handwritten.
3. The project will be presented in a neat folder.
4. The project report will be developed in the following sequence-
  - Cover page should project the title, student information, school and year.
  - List of contents.
  - Acknowledgements and preface (acknowledging the institution, the newspapers read, T.V. channels viewed, places visited and persons who have helped).
  - Introduction.
  - Topic with suitable heading.
  - Planning and activities done during the project, if any.
  - Observations and findings while conducting the project.
  - Newspaper clippings to reflect the changes of share prices.
  - Conclusions (summarized suggestions or findings, future scope of study).

**Subject: Economics**

**You need to follow the guidelines listed below to complete Subject project:**

- a) Explanation of the concept:
- b) Meaning and Definition
- c) Application of the concept
- d) Diagrammatic Explanation (if any)
- e) Numerical Explanation related to the concept etc. (if any)
- f) Students' own views/perception/ opinion and learning from the topic.

**Suggested List of topics [ANY ONE TOPIC]**

1. A report on demographic structure of your neighborhood.
2. Changing consumer awareness amongst households.
3. Dissemination of price information for growers and its impact on consumers.
4. Study of a cooperative institution: milk cooperatives, marketing cooperatives, etc.
5. Case studies on public private partnership, outsourcing and outward Foreign Direct Investment.
6. Global warming.

**N.B:** Make your report investigatory; do the research work on the policies and the steps that are implemented in the recent years; collect data on the budgetary policies taken up by the government; give examples of local markets, if any; give examples of the changes within your society; take in as many practical examples that you can to make your project/ report varied but be practical.

**GENERAL GUIDELINES:**

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
  - (a) Cover page should include the title of the Project, student information, school and year.
  - (b) List of contents.
  - (c) Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped.
  - (d) Introduction.
  - (e) Topic with suitable heading.
  - (f) Planning and activities done during the project, if any.
  - (g) Observations and findings of the visit.
  - (h) Conclusions (summarized suggestions or findings, future scope of study).
  - (i) Photographs
  - (j) Bibliography

**Subject: Entrepreneurship**

**Know the State Handicraft.**

**General Guidelines:**

- Select any Indian State.
- Select any Handicraft product of that State.
- Study all the details of that project like capital investment, problems facing by them, pricing and marketing strategies, Government support etc.
- The project can be prepared as a PPT also.

**Subject: Informatics Practices**

1. Make a power point presentation on Hardware Concepts.
2. Make a power point presentation on Software Concepts and Productivity Tools.

**URL Reference:**

[http://www.kviiitkanpur.org/admin/downloads/1528711770ip\\_text\\_book\\_class\\_xi\\_2017.pdf](http://www.kviiitkanpur.org/admin/downloads/1528711770ip_text_book_class_xi_2017.pdf)

**Subject: Physical Education**

1. Draw a 400 meter track with all specifications.
  2. Collect brief portfolio of any one male and one female sportsperson of one of the following games/sports- Badminton, Table Tennis.
  3. Write ten latest rules of any of the above mentioned sport.
- Note – Attach pictures/ photos related to the topic.