

**Class: XI COM** 

Dear Parents,

Winter vacation has begun and it's time to have a new learning experience. We have compiled a set of sheets and some activities to keep our child creatively engaged during these holidays. Creativity is a part of our makeup, as we all agree that without it the purpose of work seems to go nowhere. Children must buckle down and satisfy themselves and exhibit their creativity. These sheets are not just fun but will also help our child to learn and observe new things. You must help your child in doing these sheets. You need to read the instructions to help them wherever necessary. There are some activities in which you can also join your child and make the activity more meaningful for him/her. Some points to keep in mind:

• Holiday homework is to be done in the sheets provided. In case any activity requires any extra sheet, please use an A-4 size sheet only.

• Homework has to be submitted on the first day of school after vacation.

• Make sure your child completes the homework before coming back to school and submits the same to the subject teacher.

• Please take care of the neatness of the work.

Have a very happy and fruitful vacation!!!



"Creativity is when sights that everyone sees arouses thinking that nobody else has thought."

Anonymous Senior Section Educator



## HOLIDAY HOMEWORK Session 2019-2020

**Class: XI COM** 

Subject: English

- Q1) a) Change from Active to Passive
  - 1 Cats catch mice.
  - 2. They are picking some flowers.
  - 3. Ashok has written this letter.
  - 4. Hari stole my book.
  - b) Fill in the blanks with the correct form of the verb given in brackets.
    - 1.I-----(write) a letter to her yesterday.
    - 2. The train -----(left) before I arrived.
    - 3. We -----(play) when you came.
    - 4. They -----(reach) the station before the train starts.
  - c) Fill in the blanks with the correct determiner.
    - 1. Did you buy -----stamps?
    - 2. Will you give me -----sugar?
    - 3. He is -----honest man.
    - 4. I met -----interesting people last night.
- Q2) Write a letter to your friend telling him how you spent your winter vacations.
- Q3) Write a letter to the Commissioner of Chennai Corporation, complaining about the poor sanitary conditions in your locality.
- Q4) You are Vinod/Vimla. You are worried about the increase in the prices of essential commodities like gas, pulses, vegetables etc. Write an article on this in about 150-200 words for publication in a local daily.
- Q5) Mention the ways in which the sparrows expressed their sorrow when the author's grandmother died.
- Q6) List the steps taken by the captain
  - (1) to protect the ship when rough weather began.
  - (2) to check the flooding of the water in the ship.
- Q7) What is the Green Movement?
- Q8) Who had the crazy streak in the family and who was the natural descendant of that streak in the tribe?
- Q9) Describe Ranga's village.
- Q10) What advice did Yuri give to Albert before meeting Dr. Weil?
- Q11) Compare and contrast Mrs Pearson and Mrs Fitzgerald on the basis of the play,"Mother's Day."
- Q12) Do you think the title of the story "Birth" is apt? If so, why?
- Q13) How did the idiot choose the next king?
- Q14) What impressions of Shahid do you get from the lesson?
- Q15 ) What do you understand by the terms "Outsider art" and "Art Brut"? and "Art Brut"?

Subject Teacher: Mr. Shailendra Rikki



Class: XI COM

Subject: Hindi

निर्देश

- सभी प्रश्नों के उत्तर फाइल पेपर पर करें।
- कार्य स्वयं हस्तलिपि में होना अनिवार्य है |

पाकृतिक आपदाएँ आने के मुख्य कारण क्या है?आलेख लिखिए।

- 2- समाचार पत्र नवभारत टाइम्स के पाँच दिनों के संपादकीय लिखें |
- 3- मियाँ नसीरउददीन पाठ पढ़ने के पश्चात बाज़ार में मिलने वाली अलग-अलग चपातियों की सूचि बनाएँ तथा फोटो खींचकर चिपकाएँ।
- 4- निम्नलिखित में से किसी दो विषयों पर फीचर लिखिए-
  - (क)बर्फ की सफेद चादर में लिपटे पहाड़
  - (ख)महिलाओं के विरूद्ध बढ़ते अपराध
  - (ग)महँगाई के बाझ तले दबा मजदूर
  - (घ)वाहनों की बढ़ती संख्या

Subject Teacher: Mrs. Shashi Sanwal



**Class: XI COM** 

## **Subject: Mathematics**

### **GENERAL INSTRUCTIONS:**

- There are 20 questions in all.
- Question 1 to 5 carries 1 mark each and 6 to 20 carries 3 marks each.
- 1. Find the value of  $\tan\left(\frac{13}{12}\right)$ .
- 2. Find the coefficient of  $x^5$  in  $(x + 3)^8$ .
- 3. Line through the points (-2,6) and (4,8) is perpendicular to the line through the points (8,12) and (x,24). Find the value of x.
- If C<sup>n</sup><sub>18</sub> = C<sup>n</sup><sub>12</sub>, then find the value of C<sup>n</sup><sub>32</sub>.
  From a class of 25 students, 10 are to be chosen for an excursion party. There are three students who decided that either all of them will join or none of them will join. In how many ways can the excursion party be chosen?
- 6. Find the number of arrangements of the letters of the word INDEPENDENCE. In how many of these arrangements: i) do all vowels occur together.

ii) do the word begins with I and ends in P?

- 7. If A and G be AM and GM respectively between the two positive numbers, prove that the numbers are A  $\pm \sqrt{(A+G)(A-G)}$ .
- 8. Convert the given complex number  $z = \frac{i-1}{\cos\frac{\pi}{3} + i \sin\frac{\pi}{3}}$  in polar form.
- 9. Prove by using principle of mathematical induction,

$$+3+3^2+\dots+3^{n-1}=\frac{3^{n-1}}{2}$$
, for all  $n \in \mathbb{N}$ .

- 10. If pth, qth and rth terms of a GP are a,b and c respectively. Prove that:  $\bar{a^{q-r}b^{r-p}c^{p-q}} = 1.$
- 11. The vertices of  $\triangle PQR$  are P (2,1), Q(-2,3) and R(4,5). Find the equation of the median through the vertex R.
- 12. Find the coordinates of the foot of perpendicular from the point (-1,3) to the line 3x - 4y - 16 = 0.
- 13. Solve for  $x : 2 \cos^2 x + 3 \sin x = 0$ .
- 14. Find the domain and range of the real function f defined by  $f(x) = \sqrt{x-1}$ .
- 15. Find the equation of the circle which passes through the points (1,3) and (2,-1) and has its centre on the line 2x+y-4=0.
- 16. Find: i) the length of major and minor axis ii) coordinate of the vertices iii)
  - Coordinates of foci iv) eccentricity v) length of latus rectum of the ellipse  $\frac{x^2}{49} + \frac{y^2}{36}$ = 1.
- 17. Find the ratio in which the line segment, joining the points P (2,3,4) and Q (-3,5,-4) is divided by the yz plane. Also, find the point of intersection.
- 18. Find the sum to n term of the series whose nth term is  $(n^2 + 2^n)$ .
- 19. Using binomial theorem, prove that  $6^n 5n$ , when divided by 25, always leaves remainder 1, where  $n \in N$ .
- 20. Show that:  $\cos 6x = 32\cos^6 x 48\cos^4 x + 18\cos^2 x 1$ .

#### Subject Teacher: Ms. Saswati Roy



## HOLIDAY HOMEWORK Session 2019-2020

**Class: XI COM** 

**Subject: Business Studies** 

#### **GENERAL INSTRUCTIONS:**

- Follow the CBSE guidelines to complete the project file.
- Only hand written project file will be accepted.

Complete the project file only following topics

- 1:- Any FMCG Product.
- 2:- Project work on any Bank working.

3:- Project on any ecommerce website.

Please cover the following points.

- 1:- Introduction
- 2:-History
- 3:- Back ground of company.
- 4:- Products
- 5:-Founder

### Subject Teacher: Mr. Arun Vidhuri



## HOLIDAY HOMEWORK Session 2019-2020

## **Class: XI COM**

# Subject: Accountancy

#### **Project Work (Any One)**

- Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers.
- Preparation of Bank Reconciliation Statement with the given cash book and the pass book with twenty to twenty five transactions.
- Comprehensive project of any sole proprietorship business. This may state with journal entries and their ledgering, preparation of Trial balance. Trading and Profit and Loss Account and Balance Sheet. Expenses, incomes and profit (loss), assets and liabilities are to be depicted using pie chart / bar diagram.

## **COMPREHENSIVE PROJECT**

It is suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality.

#### A list of options to the students to select a business form.

- 1. A beauty parlour
- 2. Men's saloon
- 3. A tailoring shop
- 4. A canteen
- 5. A cake shop
- 6. A confectionery shop
- 7. A chocolate shop
- 8. A dry cleaner
- 9. A stationery shop
- 10. A groceryshop

After selection, advise the student(s) to visit a shop in the locality (this will help them to settle on a realistic amounts different items. The student(s) would be able to see the things as they need to invest in furniture, decor, lights, machines, computers etc.

#### A suggested list of different item is given below.

- 1. Advance rent [approximately three months]
- 2. Rent
- 3. Electricity deposit
- 4. Electricity fitting
- 5. Telephone bill
- 6. Furniture
- 7. Computers
- 8. nternet connection
- 9. Stationery
- 10. Rates and Taxes

At this stage performas of bulk of originality and ledger may be provided to the students and they may be asked to complete the same.

In the next step the students are expected to prepare the trial balance and the financial statements.

Subject Teacher: Mr. Gaurav Tiwari



# HOLIDAY HOMEWORK Session 2019-2020

## **Class: XI COM**

# **Subject: Economics**

#### The objectives of the project work are to enable learners to:

- probe deeper into theoretical concepts learnt in classes XI
- analyse and evaluate real world economic scenarios using theoretical constructs arguments
- demonstrate the learning of economic theory
- follow up aspects of economics in which learners have interest
- develop the communication skills to argue logically

# The expectations of the project work are that: learners will complete only ONE project in each academic session

- project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written
- it will be an independent, self-directed piece of study

## **Expected Checklist:**

- Introduction of topic/title
- Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of economic strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

## Suggestive List of Projects:

- Effect on PPC due to various government policies
- Opportunity Cost as an Economic Tool (taking real life situations)
- Effect on equilibrium Prices in Local Market (taking real life situation or recent news)
- Solar Energy, a Cost Effective Comparison with Conventional Energy Sources
- Any other newspaper article and its evaluation on basis of economic principles
- Invisible Hand (Adam Smith)
- Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
- Any other topic

## Subject Teacher: Mr. Gaurav Tiwari



## HOLIDAY HOMEWORK Session 2019-2020

**Class: XI COM** 

# **Subject: Informatics Practices**

#### Instructions:

- You need to submit your **Winter Break Assignment** on the first day of the re-opening of the school in file.
- 1. Calculate the area of rectangle
- 2. Calculate Grade on the basis of marks obtained
- 3. Factorial of a number
- 4. Sum of digits of a number
- 5. Product of digits of a number
- 6. Find the largest and smallest numbers in a list.
- 7. Test for prime Number.
- 8. Find whether a string is a palindrome or not.
- 9. Find whether a Number is a palindrome or not.
- 10. Given two integers x and n, compute xn.
- 11. Compute the greatest common divisor and the least common multiple of two integers.
- 12. Test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such numbers.
- 13. Find the sum of squares of the first 100 natural numbers.
- 14. Test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such numbers in the range of 100 to 1000.
- 15. Program to print Fibonacci Series
- 16. Print using loop



- 17. Program for arithmetic calculator according user choice
- 18. Write a python program to calculate the length of a string.
- 19. Write apython program to count the number of characters (character frequency) in a string.
- 20. Write a program to get a string from a given string where all occurrences of its first char have been changed to '\$', except the first char itself.
- 21. Write a program to remove the nth index character from a nonempty string.
- 22. Write a python program to print the index of the character in a string.
- 23. Write a python program to count and display the vowels of a given text.
- 24. Write a python program to sum all the items in a lsit.
- 25. Write a python program to get the largest number from a list.
- 26. Write a python program to remove duplicate from a list.

#### Subject Teacher: Mr. Akash Saxena



## HOLIDAY HOMEWORK Session 2019-2020

**Class: XI COM** 

# **Subject: Physical Education**

#### **GENERAL INSTRUCTIONS:**

Follow the Cbse guidelines to complete the project file. Only hand written project file will be accepted. Prepare your note book with All chapters in a good handwriting.

Note:-

- During the winter break students have to practice AAHPER FITNESS TEST.
- After Completing the winter break test will be conducted in school campus.
- This All Item shell include on project file.
- Record file shall include Labeled diagram of 400m track & Field with computations And Pictorial presentation of any five Asanas for improving concentration.

Practice Physical fitness (AAHPER TEST) shall include:-

- Standing Broad Jump
- Sit & Reach
- Shuttle Run
- 100 mtr Run
- 600mtr Run
- Madison- ball throw

Complete the project file only following topics

Skill of any one individual Game of Choice from the giving list.

- Archery
- Badminton
- Gymnastics
- Judo
- Swimming
- Table Tennis
- Taekwondo
- Bocce
- Tennis

Labelled diagram of field and equipment of any one game of your choice out of the above list.

Health Check up Computation of BMI from Family or neighbourhood and graphical representation of the data.

The following research work are include in project file:- Explanation and list of current national awardees 2019. (Dronacharya Award, Arjuna Awards & rajiv Gandhi khel ratna Awards.

#### Subject Teacher: Mr. Kamal Sharma