BHATNAGAR INTERNATIONAL SCHOOL
PASCHIM VIHAR

HOLIDAY HOMEWORK
STREAM - COMMERCE
CLASS – XI (2020-21)

Dear Students

It's time again for a rejuvenating summer break. As a global community we are facing unprecedented changes to our daily lives, leaving us looking for new ways to spend our time creatively.

Investing time in learning and development is one thing that can be controlled. Now is the time to expand your knowledge base, upskill and even reskill.

- ➢ **The COVID times have upended family life around the world. Bond with your family members by spending quality time with them.**
- ➢ **Exercising improves strength and agility. Yoga will help you detox and boost your stamina.**
- ➢ **Enjoy growing plants that emit oxygen like tulsi and aloe vera.**
- ➢ **Painting and sketching soothes your mind in a creative way.**
- ➢ **Reminiscing memorable times put your collection of pics in collages. You may make videos clubbing pics together.**
- ➢ **It is always a great idea to get engrossed in a captivating book. Read and enhance your knowledge with genres that interest you.**
- ➢ **Learning a new language gives you an edge over others. Opt for online classes and apps like Duolingo that offer simple ways to learn a new language.**
- ➢ **Put your game face on. The charm of evergreen board games bond families together.**
- ➢ **Whip simple recipes for your loved ones.**
- ➢ **Indulge your thinking nuggets to the best by creating your own blogs.**

When you're going through challenging times
Act instead of talking
Show instead of telling
Prove instead of promising.
IT'S TIME FOR INTROSPECTION , RESILIENCE AND FAITH

SUBJECT : ENGLISH

India is a land of people of diverse cultures and it is imperative to maintain and strengthen the fabric of traditionally emotional bonds between the people of our country so that a spirit of national integration is promoted. It is only through initiatives like "Ek Bharat Shreshtha Bharat" that people can understand and appreciate this glorious manifestation of diverse cuisine, music, dance, theatre, movies and films, handicrafts, sports, festivals, paintings, sculptures etc. will enable people imbibe the innate chord of binding and brotherhood.

LINK LESSON: Ranga's Marriage

1. **Create a scrap file on the chapter, replete with pictures giving detailed summary and character sketch of one of the main characters.**
2. **Record a V LOG featuring the scenic state of Sikkim and it's various facets (include food, culture, language, people etc).**
(Presentation, Creativity, Originality and Content must be taken into account while creating the V LOG).
3. **Write a descriptive paragraph on Sikkim in 100 -120 words on A-4 size sheet.**

SUBJECT :MATHS

Make an online project on the topic Sets covering
- Introduction of sets
- Types of sets
- Concept of subsets
- Union and Intersection of sets
- Properties of sets with relevant examples.
  Please note: Digital project should be in the form of PowerPoint Presentations with minimum 15 slides

MATHS ASSIGNMENT

Relations and Functions

Q1. Find the domain and range of the following functions:

(i) $f = \left\{ \left(x, \sqrt{9 - x^2} \right) : x \in R \right\}$

(ii) $f = \left\{ x, \dfrac{x^2 - 1}{x - 1} : x \in R, x \neq 1 \right\}$

Q2. Find the domain of $f(x) = \dfrac{1}{(x - 2)(x - 3)}$.

Q3. Let $f = \left\{\left(x, \dfrac{x^2}{1+x^2}\right) : x \in R\right\}$ be a function from R into R. Determine the range of f.

Q4. Find the domain of each rational functions

(i) $f(x) = \dfrac{x-2}{x-3}$ (ii) $g(x) = \dfrac{2x-5}{x^2-9}$.

Q5. The domain of the function $f(x) = \dfrac{\sin^{-1}(x-3)}{\sqrt{9-x^2}}$ is

(a) $[1,2]$ (b) $[2,3)$ (c) $[2,3]$ (d) $(1,2)$

Q6. (i) Find the domain of $f(x) = \dfrac{1}{\sqrt{x+|x|}}$.

(ii)   Find the range of $f(x) = 1 + 3\cos 2x$.

Q7. Find the range of the function $f(x) = \dfrac{x+2}{|x+2|}, x \neq -2,$

Q8. Find the domain of $f(x) = \dfrac{x+7}{x^2-8x+4}$.

Q9. Find the domain and range of $f(x) = \dfrac{1}{\sqrt{9-x^2}}$.

Q10. Find the domain of each of the following functions given by

(i) $f(x) = \dfrac{1}{\sqrt{1-\cos x}}$

(ii) $f(x) = \dfrac{1}{\sqrt{x+|x|}}$

(iii) $f(x) = x|x|$

(iv) $f(x) = \dfrac{x^3-x+3}{x^2-1}$

(v) $f(x) = \dfrac{3x}{28-x}$

SUBJECT : PHYSICAL EDUCATION

Q1. Write any one game of your choice out of the list below .

- Basketball
- Football
- Handball

- Hockey

Including : -
1. History of the game
2. Draw a neat diagram of field / court
3. Rules and Regulations
4. Fundamental skills of the game
5. Terminology of the game
6. Sports personalities of the game
7. Important Tournament of the game

Q2Write the list and explanation of the current National Awardees (Dronacharya , Arjuna , Rajiv Gandhi khel ratan)

Q3 Make a list of 5 Major Sport with Five sport personalities of each game and Make a poster A-3 sized of any one player of any game

Q4 Learn chapter
1. CHANGING TRENDS & CAREERS IN PHYSICAL EDUCATION
2. OMPLYIC VALUE EDUCATION
3. PHYSICAL FITNESS, WELLNESS & LIFESTYLE

SUBJECT : PAINTING

1. Create the illustrations from any of the story book you prefer to choose. You can choose from the variety of fairy tales that has more of illustrations than the story description.

   INSTRUCTIONS :

   1. The story book should contain 8 to 10 pages including the Cover Page.
   2. You can use normal sized art file sheets, be it cartridge or ivory sheets.
   3. Only painting medium required namely Acrylic paints, water colours, poster colours, photo colour paints.
   4. Only the illustrations required and should be self explanatory. No written material.
   5. Examples of the story books can be Rapunzel, Snow white and the seven dwarfs, little red riding hood, beauty and the beast etc.

SUBJECT : ECONOMICS

(A) Project work in form of Power Point Presentation
Topics (select any one)
1. Theory of Demand
2. Production Possibility frontier
3. Consumer's and Producer's equilibrium
4. Forms of market and Price Determination

5. Theory of supply

Format for the Presentation
1. Title page
2. Table of Contents
3. Acknowledgement
4. Introduction
5. Learning objectives of the study
6. Research Methodology / Collection of data
7. Conceptual framework
8. Presentation of data
9. Learning Outcomes of the study
10. Bibliography

ECONOMICS ASSIGNMENT

Q 1. Write the assumptions of production Possibility curve.
Q 2. Discuss the factors affecting Law of Demand.
Q 3. What are substitute goods and complimentary goods?
Q 4. Explain the central problems of 'what to produce' with examples.
Q 5. Explain the central problem of distribution in an economy.
Q 6. What is market demand?
Q 7. What are giffen goods and inferior goods?
Q 8. What is a marginal rate of transformation? Explain with help of an example.
Q 9. Why should there be huge unemployment in India when scarcity of resources is a universal fact?
Q 10. Why demand curve shifts?
Q 11. What do you mean by economizing of resources?
Q 12. Make in India campaign would shift the PPC to the right. How?
Q 13. State in brief the problem of fuller utilization of resources.
Q 14. Explain the causes for leftward shift of demand curve.
Q 15. Distinguish Between Individual demand and market demand.
Q 16. Explain with the help of diagrams, the effect of the following on demand for a good.
   (1) Rise in Income of its buyers
   (2) Fall in income of its buyers
Q 17. Define Scarcity.
Q 18. What is Economic problem?
Q 19. Explain the terms Consumption, Production and Investment.
Q 20. What is the importance of statistics?

SUBJECT : ACCOUNTS

Prepare a Power Point presentation on topic : Accountancy .

Your presentation should include the following topic:

- Need of Accounting
- Definition of Accounting
- Objectives and function of Accounting
- Advantage of Accounting
- Is Accounting Art or Science?
- Branches of Accounting
- Accounting Information
- Types of Accounting Information
- Users of Accounting Information
- System of Accounting

This project will carry 25 Marks .

ACCOUNTS ASSIGNMENT

TOPIC : INTRODUCTION TO ACCOUNTING

Introduction :
 A businessman wants to know how much profit/loss he has made during the year. For this
purpose accounts are prepared, so that at the end of accounting period, a businessman can understand
that what are the assets and liabilities of the business.

Steps involved in accounting:
 1) Indentifying business transaction is the first step of accounting.
 2) These transactions are recorded in the subsidiary books and journal proper.
3) With the help of these books we prepare ledger accounts.
4) The balances shown by ledger accounts are used for preparing trial balance.
5) Trial balance serves as the basis for the preparation of financial statements.
6) Financial statements are classified as income statements and position statement.
7) Income statement consists of making trading account which shows gross profit/loss and profit and loss
account showing net profit/loss of the business.
8) Finally, position statement (balance sheet) is prepared which reflects the true position of assets and
Liabilities.
In this way prime object of the business accounting is to measure and report the profitability and financial
status of the business.
Meaning of Accounting:
 Accounting is the process of identifying, measuring, recording and communicating the
required information relating to the economic events of an organisation to the interested users
of such information.
Accounting plays important role in providing quantitative information, primarily financial in nature, about
economic entities, that is intended to be useful in making economic decisions.
So in short,Accounting is the art of recording, classifying, summarizing and interpreting the result thereof is
called Accounting.

1. Recording
All transaction should be recorded in the book of original entry.
2. Classifying
All entries in the general should be posted to the appropriate ledger accounts.

3. Summarizing

The last stage is to prepare the trial balance and final accounts to show what profit earned or loss suffered by the company.

Definition of Accounting :

"Accounting is the process of identifying, measuring and communicating economic information to permit informed judgments and decisions by users of the information."

-- (Year 1966) American Accounting Association (AAA) .

"Accounting is a service activity. Its function is to provide quantitative information, primarily financial in nature, about economic entities that is intended to be useful in making economic decisions."

-- (Year 1970) Accounting Principles Board of AICPA (U.S.A)

Answer the following questions:

Q1. Why does business man prepares Accounts?

Q2. Define 'Accountancy'.

Q3. Write any three steps involved in preparation of Final accounts.

Q4. What do you understand by term ' Recording'?

Q5. What do you understand by term ' Summerizing?

SUBJECT : BUSINESS STUDIES

Students are required to make a presentation on any one form of business organisation they have understood. Students can use example of real life businesses by their families , relatives or neighbourhood. The presentation should be within 15 -20 slides wherein the following must be present:

- Topic and cover page
- Acknowledgement
- Certificate
- Table of contents
- Bibliography
- Conclusion

BUSINESS STUDIES ASSIGNMENT

CHAPTER 2: FORMS OF BUSINESS ORGANISATION

1. "One man control is best in the world if that man is big enough to manage the whole business." Comment.
2. Can a minor child be called a member in H.U.F business?
3. Which feature of partnership binds all partners to the agreement signed by one partner on behalf of others?
4. Name the system of H.U.F in which both male and female can be members.
5. Can a minor partner take part in the activities of management of the partnership business?
6. Can a member enjoy maximum rights in the cooperative society by holding maximum number of shraes?

7. Name the society in the following situations: (a) A society which buys goods directly from the wholesalers or manufacturers to eliminate the role of middlemen and provide to members at the most at reasonable cost

    (b) A society which buys the inputs for its members in bul provide to its members at reasonable cost. fom the market and

    (c) A society which pools the output of individual members and performs marketing functions.

    (d) A society which aims to gain the benefits of large-scale farming and increase the

    (e) A society which is formed to protect the members from the exploitation of lenders who charge high rates of interest on loans.

    F) A society which is established to help people with limited income to construct houses at reasonable costs.

8. In case a business comes to end, can the creditors claim for the recovery from the personal assets of the owners if such business organisation is: (a) Sole Proprietorship (b) General Partnership Firm (d) Cooperative Society Business (c) Hindu Undivided Family Business (,e) Company Type of Business

9. There is no compulsion for a partnership to be registered still the partners prefer to get the firms registered . why?

10. Can a minor person be admitted as a partner in a firm?

11. Does a minor partner also assume unlimited liability in the business like other partner

12. Name the type of partnership in the following cases: (a) A type of partnership business which ends itself on the completion of a project for which it was established. (b) The partnership which may be ended by giving a notice by any partner. (c) The partnership in which every partner has unlimited liability, every partner shares profits and losses, take active part in the management. (d) The partnership in which at least one partner has unlimited liability and rest of the partners have limited liability. (e) The partnership which runs on the principles of a joint stock company

13. Name the following: (a) A person who lends his name for the benefits of a firm. (b) A person who contributes capital, shares profits and losses, assumes unlimited liability but does not take active part in the day-to-day activities of the business. (c) A person whose name is not disclosed to the outside world but he works like other partners. (d) A person who styles himself as a partner though he is not a partner in the business. (e) A person whose name is used as a partner, though he is not a partner, by the Partners in a firm and he does not object over their claim.

14. In which form of business organization is a trade agreement made by one owner binding on the others? Give reasons.

15. What form of organization is more suitable for the following types of business and why?
    a) beauty parlour
    b) small retail store
    c) hotels
    d) shopping mall
    e) medium size trading concern

16. the business of sole proprietor is expanding. Should he appoint a manager or admit a partner into the business? Give reasons

17. Rajiv is the sole owner of a shirt manufacturing factory. He took loan of 30 lac from Jain finance company for expansion of his business. In beginning business was running well but later on he started facing losses and due to continuous losses he was not able to repay the loan. After receiving many reminders from finance company, Rajiv planned to close the business. He sold all his machines and other assets and collected 20 lac. He requested the finance Co. to settle the accounts by taking 20 lac. The finance company refused and plan to file a case against him in court. In court,

Mr. Rajiv gave the argument that he has sold all his business assets and loan was taken by him for business and not for personal use. So finance company must settle the account by taking 20 lac. The court did not agree with the argument of Rajiv and gave the decision in favour of finance company and order Rajiv to pay full loan amount by selling his personal asset.

(a) Name the form of business carried by Rajiv?

(b) State the feature of sole Proprietorship which is kept in mind by court while taking decision.

C) Is Rajiv's argument of saying he and business are separate entity is correct.

18 . Sharma brothers inherited some ancestral property. They decided to form a Hindu undivided family consisting of four male members. Mr. Raman Sharma was eldest brother so he became %arta'. The business took a loan of Z20 lac from Canara Bank, which was to be returned within 5 years. Due to poor financial position of the business, they were unable to repay the loan. Brothers sold the ancestoral property for 10 lac and paid the amount to Canara Bank. The bank filed a case for recovery of balance amount. Mr. Raman Sharma pleaded the court that the loan was taken for the purpose of Business; so all members of business are liable to repay. The court said all members are responsible only to the extent of their share in business and business property is already sold, but you being Karta will have to repay whole amount even by selling your personal property.

(a) In this case who has unlimited liability?

(b) Was the decision of court to claim only from Raman is justified.

19. Compare the status of minor in H.U.F Business and in a partnership firm.

20. Differentiate between general partnership and limited liability partnership.

21. Tania and Suraj are qualified chartered accountant and lawyer respectively. They joined hands to form a consultancy firm. They entered into a written agreement which specifies terms and conditions that will govern their firm. They also got the firm registered. Both of them false part in carrying the business activities. Their professional attitude helped them in gaining success within a limited time.

Questions: (a) Who governs lawyers in India? (b) Which form of business organisation is referred to in the above case. (c) What is the written agreement between Tania and Suraj known as? List any two terms of it.(d) Give two consequences of non-registration of a firm.

Q22: Differentiate between cooperative societies and partnership form of business organization.

SUBJECT: INFORMATICS PRACTICES

DIGITAL PROJECT WORK (25 marks)

Surf the internet and make a mini project on ARTIFICIAL INTELLIGENCE

covering the following topics:

Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.

NOTE: Use software like Adobe Spark, SWAY. Etc to create your project.

INFORMATICS PRACTICES ASSIGNMENT

PRACTICAL FILE WORK

Write the following programs on <u>Python Editor</u>, and place the printouts of the code and the output screen shots in a ring file.

1. Write a python program to take the radius of the circle and print its area.
2. Write a PYTHON program that inputs a student's marks in three subject and prints the total and percentage marks.
3. Write a PYTHON program to find the square of entered number.
4. Write a python program to take the length and breadth of rectangle from the user and print the area of a rectangle.
5. Write a python program to obtain principal amount, rate of interest and time from the user and computer Simple Interest and Compound Interest.
6. Write a program to obtain temperatures of 7 days (Monday, Tuesday…Sunday) and then display average temperature of the week.
7. Write a program to print Hello ten times.
8. Write a Python code to convert the temperature in Celsius to Fahrenheit.
9. Calculate the personal loan EMI as per the given formula:

   $E=PR(1+R)^n / ((1+R)^n-1))$

   E= EMI
   P=Principal amount
   R=Rate of interest
   n=Tenure of loan in months

Calculate EMI for the amount 20000 at 10% per annum for a period of 2 years.

10. Write a python code to calculate GST

 GST (Goods and Services Tax) which is included in netprice of product.

For calculatingt GST %:

- first need to calculate GST Amount by subtract original cost from Netprice
- and then apply GST % formula = (GST_Amount*100) / original_cost

<u>SCHEDULE FOR SUBMISSION OF ASSIGNMENT SHEETS
CLASS – XI(2020-21)</u>

DATES	COMMERCE	
6.6.20	ACCOUNTS	
13.6.20	BST / IP	
20.6.20	ECONOMICS/ PHYSICAL EDUCATION	
27.6.20	MATHS / ENGLISH	

*SUBJECTWISE PRACTICE WORKSHEET WILL BE UPLOADED ON MICROSOFT TEAMS AND E- CONNECT APP.