



HOLIDAY HOMEWORK (CLASS XI) 2023-24

ACCOUNTANCY

Prepare a Cartoon based PPT on the following topics in group of 5.

Topic 1: RECTIFICATION OF ERRORS

Topic 2: DEPRECIATION

Introduction of concept and explaining using cartoon illustrations and enactment.

ARTIFICIAL INTELLIGENCE

Use Adobe Firefly to create scenes for a comic strip expressing the ethical concerns around AI applications. Use Adobe Express to weave these images into a humorous comic strip and publish the link of your work in the google classroom.

BIOLOGY

Prepare a detailed research paper, PPT and Spiral bound file from the topic of your choice.

List of Investigatory projects-

- a) To isolate caffeine from tea leaves.
- b) To determine the amount of Vitamin C in selected samples of fruit juices.
- c) To determine the amount of casein present in different samples of milk.
- d) To study the presence of insecticides and pesticides in various fruits and vegetables.
- e) Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, taste etc.

OR

f) Proxymal Supraventricular Tachycardia, Epidermodysplasia verruciformis, Kawasaki Disease, Progeria, Hunter's Syndrome, Genetic Abnormalities, Vampire Disorder,

Mad Cow Disease, Fibrodysplasia ossificans Progressiva, Abdominal Cocoon etc.

Any case study of disease of your choice.

Complete the Investigatory project and Compile it according to the prescribed format.

- Cover page
- Certificate
- Acknowledgment
- Index
- Introduction
- Content (including pictures/graphs/tables/survey report etc.)
- Case Study
- Bibliography

Assessment Criterion- Content, Presentation, Research Work, Case study, Viva-voce and Confidence.

It is an individual activity and marks will be awarded in Annual Examination during practical Examination.

BUSINESS STUDIES

Select a Consumer durable public limited company of your choice and collect the following information regarding that company :

- a) Brief history
- b) Mission statement
- c) Names of its top level officials.
- d) Details of the products manufactured and marketed
- e) Brand name, brand mark and standardization mark adopted by the company.
- f) Market standing
- g) Types of sales promotional techniques used. (paste the advertisements given in the newspapers/ magazines)
- h) Labeling of its products. (paste the labels of its various products)
- i) Innovations made by the company and future plans
- j) Kinds of risks faced by the company
- k) Comment on the social responsibility pursued by that company.
- l) Type of organizational structure followed
- m) Customer support services provided by the company.

Instructions :

The project is to be prepared in the form of a powerpoint presentation (10 slides)
It is to be done individual basis(no group presentations allowed).

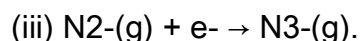
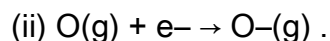
CHEMISTRY

https://drive.google.com/drive/folders/1WFWV0_4m6G6aPo5UsOkijySJPb1ZJi4j?usp=sharing

1. Under what conditions the heat evolved or absorbed is equal to the internal energy change?
 2. What is the sign of ΔH for endothermic reactions and why?
 3. What is the relationship between the standard enthalpy of formation and the enthalpy of a compound?
 4. Why enthalpy of neutralization is less if either the acid or the base or both are weak?
 5. Why the entropy of a diamond is less than that of graphite?
 6. Is the enthalpy of neutralization of HCl is same as that of H_2SO_4 ? If so, why?
 7. Is the experimental determination of enthalpy of formation of CH_4 possible?
 8. For the reaction $NaCl(aq) + AgNO_3(aq) \rightarrow AgCl(s) + NaNO_3(aq)$, will ΔH be greater than,
equal to or less than ΔE ?
 9. What is the limitation of the I law of thermodynamics?
 10. Which of the following is a state function?
 - (i) height of a hill
 - (ii) distance traveled in climbing the hill
 - (iii) energy consumed in climbing the hill.
 11. What is the value of enthalpy of neutralization of a strong acid and a strong base?
 12. Out of 1 mole of $H_2O(g)$ and 1 mole of $H_2O(l)$ which one will have greater entropy?
 13. Name two intensive and extensive properties of a system.
 14. For a reaction also ΔH and ΔS are positive. What is the condition that this reaction occurs spontaneously?
 15. What is the sign of ΔS when N_2 and H_2 combine to form NH_3 ?
- What is the effect of increasing temperature on the entropy of a substance?

16. What would be the heat released when 0.35 mol of HCl in solution is neutralized by 0.25 mol of NaOH solution?

17. Which of the following is/are exothermic and which are endothermic?



18. Calculate $\Delta_r G^\ominus$ for the conversion of oxygen to ozone, $3\text{O}_2(\text{g}) \rightarrow \text{O}_3(\text{g})$ at 298 K, if K_p for this conversion is 2.47×10^{-29}

19. Find the value of the equilibrium constant for the following conversion reaction at 298 K.

$$\Delta_r G^\ominus = -13.6 \text{ kJ mol}^{-1}.$$

20. What is meant by the statement 'Equilibrium is dynamic in nature'?

21. How does dilution with water affect the pH of a buffer solution?

22. State Henry's law.

23. What happens to the boiling point of water at high altitude?

COMPUTER SCIENCE

Prepare a web page using Adobe Express on Cyber Safety including various cyber crimes, network security threats, Cyber Forensics, Appropriate usage of social media. Share the web page link.

ECONOMICS

I. India looking to create special farm sector indices to lift agricultural productivity and incomes

Read more at:

https://economictimes.indiatimes.com/news/economy/agriculture/india-looking-to-create-special-farm-sector-indices-to-lift-agri-productivity-and-incomes/articleshow/106255139.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst

Prepare a presentation on the latest measures taken by the government for Rural Development in India.

NOTE: 1. To prepare a Powerpoint Presentation (5-6 slides) on the topic.

2. Each student should be able to present the PPT individually in an interesting manner. (Time limit: 2 min)

II. All students complete your respective Project Files (in proper sequence) and be ready for the viva on the same.

ENGLISH

SECTION-A – READING SKILLS

Q1. Read the following passage carefully:

Whether work should be placed among the causes of happiness or unhappiness, may perhaps be regarded as a doubtful question. There is certainly much work which is exceedingly irksome, and an excess of work is always very painful. However, work is not to most people more painful than idleness. There are grades in work, from mere relief of tedium up to the profoundest delights, according to the nature of the work and the abilities of the worker. Most of the work that most people have to do is not in itself interesting but even such work has certain great advantages.

To begin with, it fills a good many hours of the day without the need of deciding what one shall do. Most people, when they are left free to fill their own time, according to their choice, are at a loss to think of anything sufficiently pleasant to be worth doing. And whatever they decide on, they are troubled by the feeling that something else would have been more pleasant. To be able to fill leisure intelligently is the last product of civilization and at present very few people have reached this level. Moreover, the exercise of choice is in itself tiresome. Except to people with unusual initiative, it is positively agreeable to be told what to do at each hour of the day, provided the orders are not too unpleasant. Most of the idle rich suffer unspeakable boredom as the price of their freedom from drudgery. At times they may find relief by hunting big game in Africa or by flying around the world, but the number of such sensations is limited, especially after youth is past. Accordingly, the more intelligent rich men work nearly as hard as if they were poor.

Work, therefore, is desirable, first and foremost as a prevention from boredom, for the boredom that a man feels when he is doing something out of compulsion; though uninteresting work is as boring as having nothing to do. With this advantage of work, another is associated, namely that it makes holidays much more delicious when they come. Provided a man does not have to work so hard as to impair his vigour, he is likely to find more zest in his free time than an idle man could possibly find.

The second advantage of most paid work and some of unpaid work is that it gives chances of success and opportunities for ambition. In most work, success is measured by income and while our capitalistic society continues, this is inevitable. However dull work may be, it becomes bearable, if it is a means of building up a reputation. Whatever we do should have a purpose. It

should not be just like boiling an egg if having nothing to do. It in no way contributes to the reputation too, rather makes you a dull head. A work should not just be done for the sake of doing. At the end of the task, it should create a spark of feeling that yes, we have done something.

What's the use of flipping channels on the television where there is no stuff for you to see? It will only add to the boredom. That time could be invested in some meaningful task, say, for instance, in making a card for a dear one or spending time with our family or friends. It will cheer up their minds and seeing their faces glow, wouldn't you feel happy too! So, it's not just work that matters but the purpose of the work matters more. So, from now on, if you plan a work, plan a purpose too. Continuity of purpose is one of the most essential ingredients of happiness and that comes chiefly through work.

- a) Based on your reading of the passage make notes on it using headings, subheadings and commonly recognized abbreviations. Also, supply a suitable title to the passage.
- b) Prepare a summary of the passage in 80 words only.

Q2 Read the following passage and answer the questions that follow:

1. Globalization, since World War II, is largely the result of planning by statesmen to break down borders hampering trade to increase prosperity and interdependence, thereby decreasing the chances of future war. Their work led to Bretton Woods Conference, an agreement by the world's leading statesmen to lay down the framework for international commerce and finance, and the founding of several international institutions intended to oversee the process of globalization. These institutions include the International Bank for Reconstruction and Development (the World Bank), and the International Monetary Fund (IMF).

2. Globalization, the integration of the world economy, has been a persistent theme of the past thirty years. Growth of cross border economic activity has changed the structure of economics and the political and social organization of countries. Not all effects of globalization can be measured directly. But the scope and pace of change can be monitored along four key dimensions-trade in goods and services, financial flows, movement of people and communications.

3. In the last two decades of the 20th century, developing countries have adopted globalization and liberalization as the medium to strengthen their poor economic condition and to increase foreign investment. This worldwide change brought social and cultural calamity in India, because India is the 10th biggest economy of the world, a country which is alluring the developed countries. This also brought multi-dimensional crises that encompassed different aspects of our life-social, political, cultural, economic and ethical. The worst effect was on Indian culture, the transition being from traditional to modern, national to global, old to new.

4. The concept of globalization indicates aspiring towards oneness by all countries, i.e. the desire to be part of one uniform world order. The distances, both physical and mental, are

to be reduced to zero. Another unfortunate effect is the alienation of the younger generation as expressed in their rejection of culture and tradition and loss of faith in the social, political and cultural tradition.

5. Joseph Stiglitz, the Laureate for Economics in 2001, says in his book *Globalization and its Discontents*, "Western countries acting through the International Monetary Fund and the World Trade Organization have failed. They have mismanaged the process of privatization, liberalization and stabilization." He further says "Globalization today is not working; it is not working for many of the world's poor. It is not working for much of the environment. It is not working for the stability of the global economy."
6. The most drastic impact of globalization has been the drifting away of modern youth from familial ties. They wish for independence, privacy and space. As a result, the traditional joint family system has given way to a nuclear family system. In this period, globalization is hitting on the roots of this sacred institution of Indian culture. As a result, UNO declared 1994 as the 'International Year for Families'.
7. Globalization, which has become a worldwide phenomenon, has brought different cultures closer to each other, with a large number of foreign satellite channels beaming programmes to India. These channels propagate violence, vulgarity and promiscuity in the name of entertainment and gaining wide viewership. The Indian media blindly and blatantly copies their eroticism, as a result, the national channels defining Indian culture and broadcasting education-oriented programmes have been sidelined.
8. Another impact of globalization is associated with the problem of unemployment as well. It has brought machines, new factories and new approaches into the Indian market. Everything is computerized. The most vulnerable section of society, that is women, are being exploited continuously. It is a sterile world, where parents consider the girl child a burden. Imbalance in the sex ratio is an apparent problem. It has been estimated that close to 100000 diagnostic machines are available to check the gender of the fetus.
9. Over the past five decades, the world has seen several models and paradigms which have failed to give concrete results. What we really need is a globalized economy, but one which is placed in a human context. The policies should be introduced in such a way that they boost the economy and do not affect the very essence of Indian culture. The developing countries need to improve healthcare, literacy rate, education and most importantly, restore the cultural heritage, because it is culture which identifies a country. If we want to reap the merits of globalization, it should be implemented in this manner. The Western culture should not be viewed as an alternative to our own culture, but only as a supplement.

2.1 On the basis of your understanding of the given passage, answer any five of the questions given below with the help of the options that follow.

- (i) Which one of the following is not a key dimension of globalization?

- (a) Social organization of countries
- (b) Communication
- (c) Trade in goods and services
- (d) Movement of people

(ii) The developing countries have adopted globalization recently, as

- (a) It is a newly defined term
- (b) It is recommended by the US President
- (c) They wanted to strengthen their poor economy
- (d) They wanted to support their neighbours

(iii) An appropriate title for the passage would be

- (a) The New Globe
- (b) Developing Countries
- (c) Our Economy
- (d) globalization and its Effects

(iv) Globalization is associated with the issue of

- (a) employment
- (b) unemployment
- (c) overpopulation
- (d) afforestation

(v) Due to globalization, joint family system has given way to

- (a) joint family
- (b) liberal families
- (c) nuclear families
- (d) None of these

(vi) The concept of globalization means

- (a) aspiring towards oneness by all countries
- (b) bringing machines into the local market
- (c) starting new factories in India for exporting goods
- (d) Causing unemployment

2.2 Answer the following questions briefly.

(i) Which two international institutions are included in those that will oversee the process of globalization?

(ii) The 'unfortunate effects' of globalization have been

(iii) What is the effect of drifting away of modern youth from familial ties?

(iv) The foreign satellite channels beaming programmes to India propagate which types of programmes for gaining wide viewership?

(v) Do you agree with the author's views towards globalization at the end of the passage?

2.3 Find words from the passage which mean the same as the ones given below.

(i) powerfully attractive or fascinating (para 3)

(ii) an abstract idea (para 4)

SECTION-B- WRITING SKILLS AND GRAMMAR

Q.3. Design a poster to inform the students about the Book Week celebrations in your school. Your poster should be made using the Adobe platform. You are Sunita? Suresh, Coordinator of Ram Mohan School, Udaipur. An excursion has been planned from your school to Gwalior. Write a letter to the Manager, Tiger Den Resort, Gwalior, requesting him to provide accommodation for 30 girls and 30 boys for three days.

Clues:

- Mention the dates of the accommodation
- Ask for meals and additional charges
- Student concession to be requested etc.

Q.5. You are Sangeeta/Salil. You have been selected to represent your school in an All India Debate Competition organized by the National Children's Club Delhi. The topic for the debate is 'Minimization of Human Wants is the Only Way to Cleanse Society of all kinds of Corruption.' Write a debate in not more than 150-200 words for or against the motion giving relevant arguments for your stand. You may include some inputs given below:

- Rampant corruption becoming a way of life.
- Desires and wants need to be curtailed at times.
- Source of happiness lies within

Q.6. In the passage given below, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after against the correct blank number. Underline the word that forms your answer.

The habit of reading is one of greatest resources of mankind. (a) _____

We enjoy reading books belong to us much more than if they (b) _____
are borrowed. A borrowed book is like guest in the house; it must (c) _____
be treated with punctiliousness or a certain considerate formality.
You must see that it sustains no damage; it not suffer while (d) _____
under your roof.

Q.7. Correct the given sentences.

- a) He didn't went to the hospital to see his uncle.
- b) Neglecting a part means neglecting the all.
- c) It hoped that he will come here soon.
- d) You need not touch a live electric wire

Q.8. Rearrange the following words to make meaningful sentences.

- a) because of/ Delhi / earthquakes /its location/ prone to / is
- b) on adequate/ and / depends /preparation / indomitable / success/ determination

SECTION-C- LITERATURE

Q.9. Read the lines given below and answer any two of the questions that follow:

“ I do not understand this child
Though we have lived together now
In the same house for years. I know
Nothing of him, so try to build
Up a relationship from how
He was when small.”

- i) Who was I here?
- ii) What concern does the speaker have?
- iii) Whom does the speaker not know?

Or

I descend to lave the droughts, atomies, dust-layers of the globe,
And all that in them without me were seeds only, latent, unborn;
And forever by day and night, I give back life to my origin,
And make pure and beautify it.”

- a) Name the poem and the poet.
- b) How does I affect the earth?
- c) Explain ‘make pure and beautify it’.

Q.10. Answer any five of the following questions briefly.

- (a) What sights did Professor Gaitonde encounter to imply that he was going to a different Bombay?
- (b) Why was the narrator relieved on meeting Norbu?
- (c) Why was Aram delighted and frightened at the same time when he saw his cousin Mourad on a beautiful white horse?
- (d) In the poem A Photograph, the poet introduces the theme that human life is subject to change. Keeping that in mind, briefly comment on how human beings should handle change?

Q.11 Discuss The Tale of Melon City as a humorous as well as an ironical poem with the help of examples from the text of the poem. (Word limit: 120-130 words)

Q.12. What do you know about King Tutankhamun? Write about him in 120-130 words.

Or

‘Religion was the dominant feature of her life.’ Comment on this statement in regard to Khushwant Singh’s grandmother as projected in The Portrait of a Lady.

ENTREPRENEURSHIP

Visit any business firm near your locality; interact with the owner of the business firm and prepare a handwritten field report on parameters like

- Type of business
- Scale of business
- Product/service dealing in
- Target customer
- Problems faced
- Measures to solve the faced challenges.

FMM

Prepare a Cartoon based PPT on the following topics in group of 5.

Topic 1: ETF

Topic 2: MUTUAL FUNDS

Introduction of concept and explaining using cartoon illustrations and enactment.

HISTORY

Poster making on artefacts of Harappa using Adobe Express.

HOME SCIENCE

Care and maintenance of fabrics in institutions (One Mark)

Q.1 Two aspects of care and maintenance of fabrics in institutions are keeping them free from (a)_____ and retaining and refreshing the (b)_____.

Q.2 Care and maintenance requirements of different fabrics depends upon

- i. Fibre content and type of yarn
- ii. Fabric construction
- iii. Finishes and purpose for which they are used
- iv. All of the above

Q.3 Which type of washing-machines have the type of setting

a) Fully automatic	i. 50% or more work done by operator
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b) Semi-automatic	ii. These machines have single time settings of each control
c) Manually operated	iii. These machines require intervention of operators at frequent intervals

Q.5 Which method of water extraction provides best results in washing machines?

- a) Spinning
- b) Bottom-drain
- c) Combination of spinning and bottom-drain
- d) None of the above

Q.6 _____ rpm is the optimum speed of spinning in the washing machine.

Q.7 Principle of washing machines is to keep _____ in wash solution to carry away the dirt.

Q.8 Agitation and pulsation methods are used in _____ machines and tumbling are done in _____ machines.

Q.9 Air at high temperature is circulated slowly in a drier than relative humidity of exhausted air is _____.

Q10. In institutions, usually washing machines have _____ kg capacity per load. (2 and 3 marks)

1. What are the basic characteristics of the fabrics required by the institutions like -hotels and hospitals? Any two.
2. Why is care and maintenance of the fabrics required.
3. What is the laundry process?
4. Define - Laundry.
5. Why is laundry important in hotels?
6. What is the outcome of laundering?
7. Write the factors affecting care and maintenance of the fabrics.
8. Name the main types of equipment used for care and maintenance of the fabrics.
9. Differentiate between - agitation and pulsation .
10. Predict how the speed of the tub of the washing machine is related to the water extraction or spinning?

11. After washing the delicate curtains of a reputed hotel,, Reema is confused a little bit for choosing the drying equipment. Discuss the type of circulation system she should choose for the same.

12. Your friend's father was working in the ironing department of a commercial laundry. Summarize the points he had worked upon during earlier times in the ironing department.

13.Explain to your friend about the requirements of the field of care and maintenance of the fabrics in institutions.

INFORMATICS PRACTICES

Prepare a presentation using Adobe Express on Emerging Trends in IT including AI, Big Data, Internet of things, cloud computing, grid computing and blockchain technology. Share the presentation link.

MATHS

Do all examples of the following chapters in your class notebook.

1. Conic section
2. Limits and derivatives
3. Statistics (1st Exercise)
4. Straight line

PAINTING

PRACTICAL- Prepare two paintings each based on the landscape and foliage study. It is to be done in any water based medium eg. - water colour, acrylic or poster colour.

PHYSICAL EDUCATION

Select a game of your choice and write in detail about its history, rules, court parameters, track requirements in practical file.

PHYSICS

VERY SHORT ANSWER QUESTIONS

1. Which is more elastic-rubber or steel ? Explain your answer.
9. What is the value of Y for a perfectly rigid body?
10. Why do spring balances show wrong readings after they have been use for a long time?
11. A wire stretches by a certain amount under a load. If the load and radius are both increased to four times, find the stretch caused in the wire
12. What will happen, if the length of the capillary tube is smaller than the height of which the liquid rises?
13. Why is it easier to skate on ice than on a smooth aluminium sheet?

14. Why do the clouds float in the sky?
15. Why water does not come out of a dropper unless its rubber head is pressed hard?

SHORT ANSWER QUESTIONS

1. Compute the bulk modulus of water from the following data : Initial volume = 100.0 litre. Pressure increase = 100.0 atm (1 atm = 1.013×10^5 Pa). Final volume = 100.5 litre. Compare the bulk modulus of water with that of air (at constant temperature). Explain in simple terms why the ratio is so large.
2. The cylindrical tube of a spray pump has a cross-section of 8.0 cm^2 one end of which has 40 fine holes each of diameter 1.0 mm. If the liquid flow inside the tube is 1.5 m min^{-1} , what is the speed of ejection of the liquid through the hole.
State Bernoulli's theorem. Prove that the total energy possessed by a flowing ideal liquid is conserved.
 - Prove that surface tension is equal to surface energy
 - State and prove Pascal's law
 - Derive Ascent formula.
 - Derive an expression for excess pressure inside a liquid drop.

Mind maps and ppt:

Prepare the mind map and ppt both (in a group of three students, you may use simulations, o-labs activities, any other innovative pedagogy in the mind map/ppt) of following topics:

1. Bulk properties of solids (Roll no: 1 to 15)
2. Bulk properties of fluids (Roll no: 16-31)

POLITICAL SCIENCE

<https://docs.google.com/presentation/d/1hHHq0XdsEov0xh645vOj5trLdb7E29Dv/edit?usp=sharing&oid=104983252005175651226&rtpof=true&sd=true>

The students to make group of 4 and find the answers to the questions and add the answers in the slide.

Also the print outs of research on One Nation, One Election to be submitted with pros and cons.

PSYCHOLOGY

Complete the sample paper provided in the document below.

Present a research paper on the topic that is assigned to the students