



DC
EDUCATION SINCE 1870

DALBY COLLEGE

CLASS – XI (CBSE) SUMMER ASSIGNMENT (2023-24)

ENGLISH

https://drive.google.com/file/d/14dqHXuB9MJewVehDwcE703YCs_FEBsdu/view?usp=drivesdk

1. Read the newspaper everyday and write at least one article in about 200- 250 words expressing your opinion on the contemporary issues related to adventure, problems faced due to construction, govt. policy, environmental hazards or any other general awareness. (To be written or pasted in the English note-book)

2. Collect information related to King Tut and the Egyptian Civilization.

Present it through Power Point (about 10-12 slides) and post it on the English-Google Classroom.

3. Read any one of the novels suggested below:

i. The Adventures of Huckleberry Finn by Mark Twain

ii. 1984...by George Orwell

iii. To Sir with Love- E.R.Braithwaite

iv. Great Expectations- Charles Dickens

Write a book review on any one of them in about 250-300 words, and paste it in your notebook.

VOCABULARY – Let's spice up our expressions!

A. Learn the following idioms/expressions and try to use them in your daily conversation.

Clothes in metaphors

1. to speak off the cuff [without having prepared anything]

2. to do something on a shoestring [spending as little as possible]

3. no frills [simple and plain]

4. to put someone in a straitjacket [restrict someone's freedom]

5. to draw a veil over something [not to talk about something]

6. to have something up your sleeve [to have a secret plan or idea]

B. A brief review: Success and failure

The audience clearly loved the play – the applause was deafening. [clapping to show enjoyment] So it's not surprising that it got glowing reviews. [excellent reviews]

The audience called for several encores after his concert. [/'ɒŋkɔːz/ calls from the audience to perform some more]

She got a standing ovation as Juliet in Romeo and Juliet.

[the audience stood up and applauded at the end of the performance] Her latest album has already won three awards. Sam

Dell won the award for 'The Best up-and-coming actor'.

[likely to become very successful] The critics generally agree that her new symphony is a masterpiece. [very great work of art] She has become typecast as a middle-aged mother in a TV drama series. [always associated with that type of role] His latest opera was panned/slated [very negatively criticized] by the critics, which is strange, since all his previous works have been universally lauded.

[highly praised] The play bombed in London's West End, although it had been really successful in New York. [was a failure] The show was booed on the first night. [got disapproving noises from the audience]

The new TV soap has turned out to be a total flop. [complete failure] Novak was definitely miscast [was the wrong person for the role] as the father in that film; he was very unconvincing.

[not seeming real or true]

NOTE: The meanings of the underlined words are explained in the brackets.

PHYSICS

<https://drive.google.com/file/d/1TAt2jkBIM9Jf4c-mJEpMuzaj1Kl1frtx/view?usp=sharing>

CHEMISTRY

Chapter 1 - Stoichiometry

The calculation of relative amounts of substances in a chemical reaction is called Stoichiometry.

Problems based on Stoichiometry can be classified as:

i) Mole to mole relationships.

In these problems the moles of one of the reactants /products is to be calculated if that of other reactants /products are given.

ii) Mass-mass relationships.

In these problems the mass of one of the reactants /products is to be calculated if that of other reactants /products are given.

iii) Mass-volume relationships.

In these problems the mass /volume of one of the reactants /products is to be calculated from the mass or volume of other reactants /products are given.

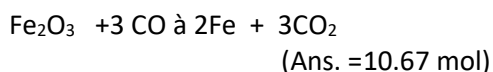
iv) Volume-volume relationships.

v) In these problems the volume of one of the reactants /products is to be calculated from the volume of other reactants /products are given.

Mole to mole relationships.

Q1. How many moles of nitrogen are needed to produce 8.2 moles of ammonia by reaction with hydrogen? (Ans. =4.1 mol)

Q2. How many moles of iron can be made from Fe₂O₃ by the use of 16 mol of carbon monoxide in the following reaction :

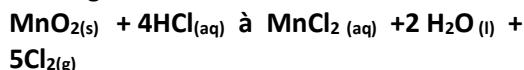


Mass to Mass or mole to mass relationship.

Q1. Calculate the amount of water in grams produced by combustion of 16g methane (CH₄) (Ans=36g)

Q2. How many moles of methane are required to produce 22g of CO₂(g) after combustions? (Ans. =0.5 mol)

Q3. Chlorine is prepared in the laboratory by treating manganese dioxide (MnO₂) with aqueous hydrochloric acid (HCl) according to the reaction:



How many grams of HCl react with 5.0g of manganese dioxide? (Ans=8.39g)

Q4. What mass of calcium oxide will be obtained by heating 3 mol of CaCO₃? (Ans=168g)

Q5. Oxygen is prepared by the catalytic decomposition of potassium chlorate (KClO₃). Decomposition of potassium chlorate gives potassium chloride(KCl) and oxygen(O₂). If 2.4 mol of oxygen is needed for an experiment, how many grams of potassium chlorate must be decomposed? (Ans=196g)

Q6. Calculate the weight of iron which will be converted into its oxide (Fe₃O₄) by the action of 14.4 g of steam on it. (Ans =33.6g)

Q8. How many grams of chlorine are required to completely react with 0.40 g of hydrogen (H₂) to yield hydrochloric acid (HCl)? Also calculate the amount of HCl formed. (Ans. =14.2g Cl₂ and 14.6g HCl)

Q9.What weight of zinc would be required to produce enough hydrogen to reduce completely 8.5 g of copper oxide to copper? (Ans.= 6.955g)

Q10. Calculate the amount of lime Ca(OH)₂ required to remove the hardness of 60,000litres of well water containing 16.2 g of calcium bicarbonate per 100 litre.

(Atomic mass of Ca=40,C=12,O=16,H=1) (Ans.=4440g)

Q11. A 1.84 g mixture of CaCO₃ and MgCO₃ upon heating gave 0.96 g residue. Calculate the percentage composition of the mixture. (Atomic mass of Ca=40,Mg=24 C=12,O=16,H=1) (Ans.CaCO₃=54.35% and MgCO₃=45.65%)

Mass to Volume relationship.

Q1. An impure sample of sodium chloride which weighed 1.20g gave on treatment with excess of AgNO₃ solution 2.40g of silver chloride as a precipitate Calculate percentage purity of the sample. (Ans.=81.5%)

Q2. A 2.0 g of sample containing Na₂CO₃ and NaHCO₃ loses 0.248 g when heated to 300°C , the temperature at which NaHCO₃ decomposes to Na₂CO₃,CO₂ and water . What is the percentage of Na₂CO₃ in the mixture? (Ans.=66.4%)

Q3. Calculate the amount of KClO₃ needed to supply sufficient oxygen for burning 112L of CO gas at N.T.P. (Ans.=204.167g)

Q4. What volume of air at N.T.P. containing 21% of oxygen by volume is required to completely burn 1000g of sulphur containing 4% incombustible matter? (Ans.=3200L)

Q5.1.0 g of mixture of carbonates of calcium and magnesium gave 240ml of CO₂ at N.T.P.

Calculate the percentage composition of the mixture. (Ans.CaCO₃=62.5 and MgCO₃=37.5)

Volume –Volume Relationship

Q1. Calculate the volume of oxygen at N.T.P. that would be required to convert 5.2L of CO to CO₂. (Ans.=2.6L)

Q2.What volume of oxygen at S.T.P. is required to effect complete combustion of 200cc of acetylene and what would be the CO₂ formed?(Ans.=500cc at S.T.P. ,400cc atS.T.P.)

Limiting Reactant

The reactant which is completely consumed when a reaction goes to completion is called the limiting reagent or limiting reactant because its concentration limits the amount of products formed.

Q1.In a reaction A+B₂→AB₂ identify the limiting reagent if any in the following reaction mixtures:

- i) 300atoms of A + 200 molecules of B (Ans =B)
- ii) 2 mol of A +3 ml of B(Ans =A)
- iii) 100 atoms of A + 100 molecules of B(Ans =Both will react completely)
- iv) 5 mol of A + 2.5 mol of B (Ans =B)
- v) 2.5 mol of A + 5 mol of B (Ans =A)

BIOLOGY

(AProject work: Prepare a project on any topic of your choice. Your project should be 15-20 pages and should include:

- A cover page.
- Certificate (CBSE format)

- Index
- Well written Content
- Case study (wherever applicable)
- Bibliography

Your project should be predominantly handwritten. Some suggested topics are:

- Any organ system of the body (Anatomy, physiology)
 - Any disease with 2 case studies.
 - Topic from biotechnology
 - Any investigatory project.
 - Any other topic related to the subject.
- (B) Complete written work of all the specimens you have observed in the lab and all the practical performed so far.

PURE MATHEMATICS (041)

<https://drive.google.com/file/d/1Gq0QEhBSnyeZqM6mnJEgKaQnrVs9yjRc/view?usp=sharing>

APPLIED MATHEMATICS

<https://docs.google.com/document/d/1hydWxqU8vZn-GRny2uGD9ZJvHpNyEyeAL396WjYxieg/edit?usp=sharing>

ECONOMICS

Prepare a synopsis for Research Project (print) based on the guidelines link

https://docs.google.com/document/d/1P_WwgW3JcLfYswQaVN9_0DvmOg_x3i3P/edit?usp=sharing&oid=100369565786102852910&rtprof=true&sd=true

Note: Please select any one topic and mail it to the teacher for final approval so as to avoid repetition

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ACCOUNTS

<https://drive.google.com/file/d/1V1gOwwBCHc2BjVpckjSJXylJ6aW3rDw/view?usp=sharing>

BUSINESS STUDIES

https://drive.google.com/file/d/1K1FjuWphe2C5oWL5sopu6i_WcVhiWTxt/view?usp=drivesdk

ENTREPRENEURSHIP

<https://drive.google.com/file/d/1swHfQ96nWZq2s4vaZYV5VRWORdygT3LS/view?usp=sharing>

PSYCHOLOGY

Ask your family members and friends about what they think psychology is? Draw a comparison between what they say and what the textbook tells you. What conclusion can you draw?

POLITICAL SCIENCE

GUIDELINES FOR PROJECT WORK

The students will select a topic from either Book 1 or 2 for their Annual Project.

Once the Topic taken, it must be shared with the subject teacher on google classroom, deadline for this will be 30 May, 2023.

Once the topic approved, the student will prepare the synopsis on the chosen topic, and will upload on the google classroom. Please check GC for the teacher's feedback on your chosen topic.

Next step will be the research work on the chosen topic.

This research work must be brought and shared with the teacher after the summer vacation in hard copy.

Please refer the given link for the complete details on the Annual Project work. Refer page number 36-39.

https://cbseacademic.nic.in/web_material/CurriculumMain24/SrSec/PoliticalScience_SrSec_2023-24.pdf

HISTORY

PROJECT WORK (2023-24)

Suggestive topics for project work :

1. Making and unmaking of Mesopotamia .
2. Ancient History in depth: Mesopotamia.
3. The Legacy of Mesopotamian civilization with special reference to town planning, Script and Writing system, Mathematics, Astronomy, Science and their calendar.
4. Contributions of Roman Civilization.
5. The Roman Empire with special reference to Architecture, government and society.
6. Piecing together the past of Genghis Khan.
7. Role of Genghis Khan in establishing nomadic empire .
8. Greek Philosophy and City-States.
9. The spirit of Renaissance: Manifestation in art; Literature; Sculpture; Influence on Trading Community; Social Fabric; Philosophy; Political Values; Rational Thinking; Existentialism.
10. Different schools of thought – Realism: Humanism: Romanticism.
11. The Three Orders.
12. An Exploratory study into Humanism.
13. An exploratory study into the realism and the transmission of Humanistic ideas .
14. Aspirations of women in the Renaissance period .
15. History of Aborigines – America /Australia.

16. Myriad Realms of Slavery in ancient, medieval, and the modern world.
17. Facets of Modernization – China /Japan/Korea.
18. Case study on China and Japan. (Path to modernization)
19. European voyages and explorations.
20. Scientific Revolution and the origins of modern science.
21. An exploratory study into the making of America.
22. Crusades: causes; rationale; events; outcomes; Holy Alliance

NOTE:

1. The project work to be done individually or in a group.
2. Each group or individual needs to select one topic.
3. **Each student to have a separate project file.**
4. The project should be minimum of 25 to 30 pages each.
5. Use colourful sheets for the work and spiral binding.
6. Each individual /group has to prepare Power point presentation related to the topic.
7. The groups can present role play, drama, songs, bulletin board, poem related to the topic.
8. The project should be totally research and survey based.
9. The project must be neat and well presented and must be completely handwritten.
10. Please select any one topic and mail it to the teacher for final approval so as to avoid repetition.
11. Please mail the draft of the topic of your project work for supervising the process of project completion, so that the teacher can guide you by providing necessary inputs, resources etc. to enrich the subject content.
12. Students have to preserve the initial draft of the project as well as any research papers that they may have used. (To be attached at the end of the project)
13. The project work must be completed well on time.

Please refer the following link for detail.

https://cbseacademic.nic.in/web_material/CurriculumMain24/SrSec/History_SrSec_2023-24.pdf

FINAL PRESENTATION/LAYOUT OF THE PROJECT

Section

1: Project
(Title of the Project)

History

Name:

School:

Year:

House no.:

Section 2:

Certificate of authenticity

(To be pasted)

Section 3:

Index

Section 4:

Acknowledgement

(Acknowledging the institution, the place visited and the person who has helped.)

Section 5:

Preface: Statement/Objective of the project

Section 6:

Introduction: (Objective/learning :Introduce the selected topic by giving some historical background)

Section 7:

Summary of the topic, Activities done during the project

Section 8:

Observations and Analysis

Section 9:

Conclusion Summarized suggestions of findings/Future scope of study

Section 10:

Appendix: Person consulted, Bibliography, Books, Websites, Films/ Television referred.

Section 11: Values and Life skills learned through the project

PHYSICAL EDUCATION

<https://docs.google.com/document/d/1Ko3PiiSk15nyfd-9QP85XnTH3kDA45rMtr-mcNaWmNI/edit?usp=sharing>

PAINTING

Study the Color Wheel and Color Theory.

Make a colour wheel on A4 Size Sheet.

Do Live sketching of 20 different objects.

LEGAL STUDIES

Dear Student,

This is to inform you regarding the Submission of Class XI Legal Studies Practical File for record before the last date June 25, 2023.

Further, any other doubts regarding syllabus, submission and topic, please reach out to me through my contact number: 9589613810.

Regarding, submission, you have to submit LS Practical File before June 25, 2023.

In case of late submission, we won't be responsible for your grade performance.

Students can opt for any ONE Project from the three topics given below:

Topic 1: Students can prepare a research project addressing legal issues related to any topic from the textbook or around them that needs immediate redressal.

Some suggested topics

1. Uniform Civil Code
2. Law reforms in India
3. Juvenile Justice
4. Death Penalty
5. Any other course related topic

OR

TOPIC 2-

Students can conduct research and draft a report on any recent legislation/ amendment that brought about a social change, for example: Consumer Protection Act, Information Technology Act, Right to Information Act etc. To conduct research students can examine the conditions that give rise to need for law reform; the agencies of reform; mechanism of reform; assess the effectiveness of law reform in achieving just outcomes with regards to the issue.

METHODOLOGY FOR TOPICS 1 & 2:

The project file should be at least 15 pages. Steps are as follows

- Choose a topic
- Gather information from various sources
- Write a statement of purpose of the project
- Support it with research evidence
- Presentation of project should include headings
- List the sources

OR

TOPIC 3- Understanding the important elements of 'JUDICIAL DECISION' OBJECTIVES- The project work aims to enable students to:

- Identify a legal problem and provide its remedy
- Select relevant legal sources and conduct research
- Analyse and distinguish between types of cases
 - Apply case laws and relevant statutory laws
 - Understand parts of a judicial decision

METHODOLOGY FOR TOPIC 3:

1. The student is required to select any 5 decided cases where in one case is of criminal nature, one is of civil nature, one is constitutional, one is related to international law and one is of student's choice (PIL if possible).
2. The research on the cases must include the following points:
 - a. Name of the case
 - b. Parties to the case
 - c. Nature of the case (Civil, Criminal or Constitutional)
 - d. Facts of the case and issues involved
 - e. Decision of the case
 - f. Citation of the case

Thanking You. Awaiting for your files and expecting punctual behaviour.

COMPUTER SCIENCE

Assignment 1:

Prepare a report/presentation with short write-ups for the following trends in the field of technology:

1. 4D printing and Its possibilities
2. Robotic Process Automation
3. Quantum Computing
4. Natural Language Processing
5. Cryptocurrency, Distributed Ledger and Blockchain
6. Digital Twins
7. Virtualization

Make sure that your report/presentation must explain followings about the topic:

- * Brief history (date/year of initiation, person/company introduced etc)
- * Advantages
- * Limitations
- * Impact on our life
- * Areas/domains of implementations

Assignment 2:

Identify the popular programming languages used in following domains and also the reason behind their popularity:

1. Artificial Intelligence & Machine Learning
2. Interactive Web Development
3. Enterprise Application Development
4. Data Analysis
5. Operating Systems and System Tools
6. Application & Web Development
7. Mobile App Development

HINDUSTANI VOCAL MUSIC

1. Brief history of Gharana
2. Brief study of Musical elements in Natya Shastra
3. Biographies
4. Introduction of talas
5. Instruments and knowledge of structure listen raga bihag, jaunpuri, bhairavi, bhimpalasi on you tube or any site.