



The Punjab Public School Nabha
Holiday Home Work
June-July, 2024
Class XI (A, B & C)

ENGLISH

Prepare a Project File on any two of the following topics: (500-1000 words)

1. Analysis of the theme of 'Triumph of the spiritual over the temporal' in "Abhisara: the Tryst" by Rabindranath Tagore.
2. Write a note on Upagupta as an embodiment of ascetic principles.
3. Write the character sketch of Hamaguchi Gohei in "A Living God" by Lafcadio Hearn.

Note:

1. Show proper Cover Page, Index, Acknowledgement and Bibliography (source may include books, research papers and online resources).
2. Please solve **English Language** and **English Literature** papers of **Unit Examination** in your Notebook.

PSYCHOLOGY

Students are expected to conduct a study and make a detailed project on any one of the following topics:

1. Attention and Perception- Laws of Perceptual Organizations, Errors in Perception.

OR

2. Memory and Forgetting- Types of Memory, Theories of Forgetting, Ways to improve memory.

FINE ARTS

STILL LIFE

1. You have to draw Five Still Lives. You can choose any corner of your House, outside or adjust anything. (Like-jug, glass, bottle, cup, pot, jam bottle, basket, plate of fruits, flowers, vegetables etc.) You have to draw Two with water colors and Three with shading / oil pastel / acrylic colours.

NOTE: - you have to concentrate on structure form, tone, prospective, shading and related to background.

NATURE STUDY

2. You have to draw Five works from nature – any One tree from nature related with a natural background – Three beautiful plants with flowers, a bud or two and One beautiful plant with leaves only.

NOTE: - you have to draw detail study of nature and concentrate on form, Structure, tone, prospective.

TIE AND DYE

3. You have to dye four pieces of cloth in different type's patterns.

HAPPY HOLIDAYS

NOTE: - students are requested to complete their project, sheets in proper Order and sheets should be properly in file or used as drawing file.

ACCOUNTS

Project#1 – Books of Accounts

Part I

- Draw a circular flow chart depicting the Accounting Cycle
- Write a summary of history of Accounting (in one page)
- Write the meaning and features of Journal and Ledger
- Make a table showing differences between Journal and Ledger

Part II

Ajay resigned from his bank job on 16th February, 2023. He had always dreamed of starting his own business. After thorough planning and market research, Ajay decided to start a furniture outlet in the local market. Ajay owned a private building in market and he decided to convert it to his business outlet.

Ajay is not formally trained in Accounts. He has been noting down his business transactions in a diary starting from 1st April, 2023 till 31st March, 2024.

The extract of his diary is given below:

2023 1 st April	Started business. Private building worth 5,00,000 converted into office. Taken a bank loan of 7,00,000. Also brought 8,00,000 cash from personal finances to run business operations
5 th April	Purchased goods on credit from Sunil worth 3,00,000
8 th April	Purchased new AC for shop. Payment done by cheque 40,000
12 th May	Purchased goods costing 4,00,000
30 th May	Sunil's account settled by issuing cheque worth 2,90,000

1 st June	Cash Sales 5,00,000
25 th July	Goods stolen from the shop 20,000
1 st August	A chair costing 10,000 was taken to home for personal use
10 th August	Withdrawn cash from bank for office use 1,00,000
31 st August	Additional capital deposited in bank account 2,00,000
12 th September	Credit sales to Vimal 4,00,000
15 th September	Vimal returned goods worth 20,000 for not being as per the specifications
30 th September	Received cash from Vimal in full settlement 3,75,000
1 st October	Goods purchased worth 1,00,000. Trade discount amounted to 10% Carriage inwards 4,000
15 th October	Wages paid to workers for making dining table for sale 10,000
1 st November	Goods worth 2,00,000 purchased from Jai
2 nd November	Defective goods worth 10,000 returned to Jai
5 th November	Jai's account settled through cheque amounting to 1,85,000
20 th November	Credit Sales to Deepak 6,00,000 Carriage paid 10,000
30 th November	Only 90% of the amount (6,00,000) could be recovered from Deepak, the remaining being bad debts

2024 1 st January	Repairs carried out on building 20,000
10 th January	Donation to hospital 50,000
1 st February	Salary paid to salesman 80,000
10 th February	Rent paid for hiring polishing machine 20,000 (50% of rent is advance for next year)
1 st March	Depreciation on building 50,000
15 th March	Miscellaneous expenses 15,000

You are required to:

- 1) Ajay needs your help. He has handed over his diary of transactions to you. He has requested you to prepare Journal and Ledger for him for the year ended 31st March, 2024
- 2) Prepare all the ledger accounts, and close them appropriately on 31st March, 2024 (Ensure that closing entries are recorded in the journal also)
- 3) On the basis of closed ledger accounts, prepare a Trial Balance for Ajay for the year ended 31st March, 2024

COMMERCE

Project Works:

Project 1 : Systematic study of Hindustan Unilever Limited (HUL) Company in FMCG Category

Its inception, products available , its workings, management pattern, financial performance etc.

Project 2: Visit a commercial bank nearby your place. Collect all vouchers required for withdrawal, deposits and transfer etc. Also procedure of Opening Saving Account in the bank.

ECONOMICS

Project 1: Study consumer awareness amongst households through designing a questionnaire and collection of primary data.

Project 2: Study in detail about G-20 and its impact on the Indian economy. The project should include: history of establishment of G-20, its objectives, increase in capital flows among the member nations and highlighting its importance for the Indian economy.

HISTORY

The students will make project on the following topic:

Changes in nature of warfare ----- late 19th and early 20th century conflicts (World War1)

The written outcome of the project in the form of 800 to 1500 word essay should be structured as given below :

1. Introduction ---- Background and context to be discussed very briefly
2. Main body ---- Explanation ,Interpretation Analysis and Critical Evaluation of a range of evidence : the research material gathered by the student
3. Conclusion ----- Brief summing up of the topic
4. Bibliography ----- a list of all material referred to in the essay including print ,electronic oral and audio -visual material, referenced correctly in a standard format
5. Appendix ----- optional only if it is crucial for the better understanding of the project essay

HINDI

परियोजना कार्य- 2024

विषय: हिंदी

कक्षा: ग्यारहवीं

1 'आषाढ़ का एक दिन' नाटक के प्रथम अंक को ध्यान में रखते हुए अम्बिका का चरित्र-चित्रण कीजिए। स्वाभिमानी, स्वयं के सम्मान की रक्षा करने वाली, ममतामयी माँ, यथार्थवादी, स्पष्टवादी।

2 सुभद्राकुमारी चौहान ने कहानी को 'गौरी' शीर्षक दिया, कथानक के आधार पर वह कहाँ तक उचित है? उदाहरण सहित उत्तर दीजिए।

3 'सारा आकाश' उपन्यास की नायक समर का चरित्र-चित्रण कीजिए।

भावुक एवं कमजोर, मानसिक रूप से परेशान, मेहनती, निराशावादी, स्वाभिमानी, अच्छा मित्र, पत्नी को प्रेम करने वाला।

4 एक निबंध लिखिए- कुसंग का ज्वर-विवेक का विनाश।

भूमिका: सत्संगति का अर्थ, महापुरुषों के उदाहरण, विद्वानों के कथन, सत्संगति का महत्त्व, सत्संगति का प्रभाव, कुसंगति का दुष्प्रभाव, सत्संगति पर ही व्यक्ति की सफलता-असफलता निर्भर, अच्छी पुस्तकों का अध्ययन, विद्वानों का सत्संग, सत्संगति के लाभ, अपनी व समाज की प्रगति, आत्मबल में वृद्धि, उपसंहार।

नोट:- परियोजना कार्य जांच के मापदंड

- कार्य स्वच्छ, त्रुटिरहित एवं स्वयं से किया गया हो।
- कार्य की जांच अभिव्यक्ति, सरल भाषा, व्याकरण की विभिन्न विधाओं के प्रयोग, विचारात्मक भाव को ध्यान में रख कर किया जाएगा।
- परियोजना कार्य जमा करने की अंतिम तिथि 02 अगस्त 2024 है।

PUNJABI

ਨੋਟ :-ਲਿਖਾਈ ਸਾਫ਼ ਅਤੇ ਸੁੰਦਰ ਕਰੋ।

1. ਵਿਦਿਆਰਥੀ ਨਾਵਲ 'ਮੜੀ ਦਾ ਦੀਵਾ' ਦੇ ਲੇਖਕ 'ਗੁਰਦਿਆਲ ਸਿੰਘ' ਜੀ ਦੇ ਜੀਵਨ ਅਤੇ ਸਾਹਿਤਕ ਸਫਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਇਕੱਠੀ ਕਰਕੇ ਇੱਕ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰਨਗੇ।
(ਲੇਖਕ ਦਾ ਜੀਵਨ, ਸਾਹਿਤ ਰਚਨਾ, ਕਿੱਤਾ ਅਤੇ ਮਾਨ ਸਨਮਾਨ।)
2. ਕਹਾਣੀ 'ਸਵੇਰ ਹੋਣ ਤੱਕ' ਅਤੇ ਉਸਦੇ ਲੇਖਕ ਬਾਰੇ ਜਾਣਕਾਰੀ ਇਕੱਠੀ ਕਰਕੇ ਕਹਾਣੀ ਅਤੇ ਲੇਖਕ ਉੱਪਰ ਚਿੱਤਰਾਂ ਸਹਿਤ ਇੱਕ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕੀਤਾ ਜਾਵੇ।
2. ਨਾਟਕ 'ਕੱਲ ਅੱਜ ਤੇ ਭਲਕ' ਬਾਰੇ ਜਾਣਕਾਰੀ (ਨਾਟਕ ਦੀ ਰਚਨਾ, ਪਾਤਰ ਤੇ ਸੰਖੇਪ ਵਿਸ਼ਾ) ਇਕੱਠੀ ਕਰਕੇ ਲਗਭਗ 500 ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।
4. ਅੱਜ ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਦਾ ਵਿਦੇਸ਼ਾਂ ਵੱਲ ਰੁਝਾਨ ਵਿਸ਼ੇ ਉੱਤੇ ਲੇਖ ਲਿਖੋ।
5. ਵਿਦਿਆਰਥੀ (UNIT TEST) ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਨੂੰ ਲਿਖਤੀ ਰੂਪ ਵਿੱਚ ਹੱਲ ਕਰਨਗੇ।

ਵਿਦਿਆਰਥੀ ਉਪਰੋਕਤ ਦਿੱਤੇ ਕੰਮ ਨੂੰ ਸੁਚੱਜੇ ਰੂਪ ਵਿੱਚ ਇੱਕ ਫਾਇਲ ਵਿੱਚ ਲਿਖਤੀ ਰੂਪ ਵਿੱਚ ਤਿਆਰ ਕਰਨਗੇ। ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰਦੇ ਹੋਏ ਵਿਦਿਆਰਥੀ ਪਾਠ ਸੂਚੀ, ਪ੍ਰਵਾਨਗੀ, ਜਾਣ ਪਛਾਣ ਅਤੇ ਕਿਤਾਬ ਸੂਚੀ ਦਾ ਵਿਸ਼ੇਸ਼ ਧਿਆਨ ਰੱਖਣ।

MATHEMATICS

Instructions: 1. All the projects to be done on a separate file.

2. The front page should carry your details e.g. Name, House Number, Class & Section, name of the teacher, session etc.

3. Your project should include: an introduction, findings, analysis, conclusion, acknowledgement and bibliography.

4. Do any two projects

1. Explain Sets and its types. Representation of sets using Venn Diagrams exhibiting daily life problems based on operations (Union, Intersection and Difference) on two sets.
2. Representation of linear inequalities in two variables graphically. And Show the feasible region satisfying all inequalities.
3. Using a diagram, demonstrate a function, which is one one and onto

BIOLOGY

1. Collect the leaves and flowers of any 20 dicot and monocot plants in yours surrounding and fix in a herbarium Sheets with following information:

- (i) Name of the plant in English, Punjabi, Hindi and scientific name
- (ii) Date and time of collection.
- (3) Economical importance.

2. Make a PPT on Animals classification.

CHEMISTRY

1. Solve Unit Test question paper in your chemistry holiday notebook.
2. Solve all the numerical of the chapters
 - (i) Some basic concepts of Chemistry
 - (ii) Structure of atom
3. Read and learn the chapters
 - (i) Periodic classification of elements and periodic properties.
 - (ii) Chemical bonding

4. Complete your Chemistry project according to the instructions given below.

NOTE: Prepare power point presentation of your project. You have to give a presentation of your project after summer break.

Project Work

The candidate is to creatively execute one project/assignment on a selected topic of Chemistry.

Evaluation criteria for Project Work:

- Acknowledgement
- Index
- Introduction / purpose
- Contents
- Analysis/ material aid (graph, data, structure, pie charts, histograms, diagrams, etc)
- Presentation
- Bibliography

Topics

1. Amino acids: Peptides, structure and classification, proteins structure and their role in the growth of living beings.
2. Nucleic Acid: DNA and RNA – their structure. Unique nature. Importance in evolution and their characteristic features.
3. Carbohydrates and their metabolism, Blood -hemoglobin and respiration.
4. Vitamins and hormones
5. Simple idea of chemical evolution.
6. Natural polymers (any five) - structure, characteristics, uses. Synthetic polymers (any five) - method of preparation, structure, characteristics and uses.
7. Types of Dyes - methods of preparation, characteristics and uses.
8. Chemicals in medicines: antiseptics, antibiotics, antacids, etc. and their uses.
9. Preparation of soap, nail polish, boot polish, varnish, nail polish remover, shampoo and perfumes.
10. Chemicals and chemical processes in forensic studies.
11. Insecticides, pesticides and chemical fertilizers.
12. Ancient Indian medicines and medicinal plants.
13. Organic Chemistry in Nutrition, Food Science and Biotechnology.
14. Effect of Green House Gases.
15. How Plastics have changed the world, both socially and economically.
16. Pollution (air, water, soil)
17. Food adulteration and detection.
18. Chemistry in metallurgy and metallurgical processes.
19. Chemistry of food preservation.
20. Future fuel
21. Explosive (Chemicals used, structure, preparation, harmful effect and their uses)

Chemistry Projects
Class: XI

SR. NO	H. NO	NAME	CAT.	D.O.B	Project (Topic No.)
1	J00385	Aarav Sharma	SWB	18-01-09	1
2	R2625	Abhinandan Kumar Verma		01-01-08	2
3	S00370	Abhitaj Singh		05-02-08	3
4	J00386	Akshat Sharma	SWB	23-01-09	4
5	S2591	Akshayata Sharma	BG	03-09-08	5
6	J00382	Akshima	SWG	10-05-08	6
7	S00432	Anahatjot Kaur Hari	BG	05-01-09	7
8	J2758	Deepika Michhal	BG	21-07-09	8
9	J00471	Dilpreet Singh Gill		19-03-08	9
10	J00613	Divyanshi	BG	21-11-07	10
11	R00403	Ekampratap Singh Dhiman		15-11-07	11
12	S00543	Gurjot Singh Sandhu		05-09-07	12
13	R00486	Gurmukh Singh		13-08-08	13
14	S00433	Gurupdesch Singh Chahal		15-09-08	14
15	J00518	Ishmeet Kaur	BG	29-08-07	15
16	J2666	Jashanpreet Singh		18-01-08	16
17	J00379	Kanwar Jaideep Singh Brar		10-11-07	17
18	S00439	Khushpreet Singh		25-08-08	18
19	B2643	Kudrat Kaur Rai	BG	17-05-08	19
20	B2608	Kuwaradeshwar Singh		15-12-08	20
21	R00455	Manseerat Singh		26-01-08	21
22	S2582	Manvir Singh		15-11-07	20
23	B00492	Mehtaab Singh Dhillon		27-07-08	19
24	R00495	Mehtab Singh Benipal		07-09-07	18
25	R00494	Naman Goyal		16-06-08	17
26	S00499	Naunihal Singh Dhillon		31-08-08	16
27	B00493	Nehmat Kaur Dhanda	BG	07-04-09	15
28	B2707	Pargreen Kaur Sohi	BG	09-12-07	14
29	B00494	Pratap Singh		20-08-08	13
30	R00404	Preetinder Kaur	BG	02-05-09	12
31	J00575	Runsher Singh Dhillon		21-02-07	11
32	S00371	Satyajeet Singh		25-05-08	10
33	B2704	Sidakjot Kaur	BG	03-09-07	9
34	S00311	Siddharth Bhardwaj		17-10-08	8
35	S00437	Simran Kaur Gill	BG	29-03-09	7
36	J2756	Smyla Choudhary	BG	26-02-08	6
37	J00380	Sohana Ahmed	SWG	10-11-08	5

PHYSICS

❖ Instructions:

- A, B & C are mandatory for all students. These are to be documented in your class-work notebooks.
- D, E, F, G, H, I and J are assigned as given in the table at the end. The students have to perform, analyse and document them accordingly.
- The content of the project must contain the following:

1.	Title and Abstract (summary)
2.	Acknowledgment
3.	Introduction/purpose
4.	Contents/Presentation
5.	Analysis/ material aid (graph, data, structure, pie charts, histograms, diagrams, etc.)
6.	Originality of work
7.	Conclusion/comments

❖ Holiday Homework:

- Re-attempt the Unit Term Examination Question Paper.
- Complete the numerical exercises from the chapters completed in the class during the month of April-May 2024-25.
- Read the chapter:
 - Laws of Motion

❖ Project Work/Assignment

The students are requested to perform the project assigned during their holidays and prepare a report as instructed.

D. Dimensional Analysis:

- Research and compile examples of the importance of dimensional analysis in physics and engineering. Explain how dimensional analysis helps in deriving relationships between physical quantities and in checking the consistency of equations.
- Solve dimensional analysis problems from your textbook or other sources, focusing on converting units, checking equations for dimensional consistency, and deriving dimensionless quantities (at least 10 from each of the above).

E. Physical Units:

- Create a comprehensive study guide on different systems of units, such as the SI (International System of Units) and the CGS (Centimetre-Gram-Second) system. Include explanations of base units, derived units, and conversion factors between different unit systems.

- Investigate historical developments in the definition of fundamental units (e.g., the meter, kilogram, second) and their modern-day definitions. Discuss the need for standardization and the role of international organizations like the International Bureau of Weights and Measures (BIPM).

F. Kinematics:

- Solve numerical problems related to one-dimensional and two-dimensional motion, covering concepts such as displacement, velocity, acceleration, and projectile motion. Provide detailed solutions, including diagrams and explanations of the underlying principles.
- Conduct a hands-on experiment to analyze the motion of objects using motion sensors or smartphone apps. Record data for different types of motion (e.g., constant velocity, uniformly accelerated motion) and analyze the results graphically.

G. Motion Analysis in Sports:

- Choose a specific sport (e.g., track and field, swimming, gymnastics) and investigate the principles of kinematics applied in that sport. Analyze the motion of athletes or objects involved, considering factors like speed, acceleration, and trajectory.
- Present your findings in a multimedia format, such as a video documentary, a slideshow presentation, or an interactive website. Include interviews with athletes or coaches, demonstrations of key movements, and explanations of the physics behind them.

H. Dimensional Analysis in Everyday Life:

- Explore how dimensional analysis is used in various aspects of daily life, such as cooking, construction, or transportation. Choose a specific application (e.g., baking a cake, designing a bridge, calculating fuel efficiency) and demonstrate how dimensional analysis helps in problem-solving and optimization.
- Create a visual presentation or a written report illustrating the relevance of dimensional analysis in your chosen application. Include practical examples, calculations, and explanations of how different physical quantities are related.

I. Research Project: Investigating Motion in Virtual Environments:

Objective: The objective of this project is to explore the principles of motion using virtual reality (VR) simulations and analyse how they compare to real-world observations. Use sources such as Youtube, Google or other platforms such as PhET, a simulation engine developed by University of Colorado, Boulder etc. (if any doubt, please contact the concerned teacher).

Methodology:

Literature Review: Begin by conducting a literature review on the physics of motion, including concepts like displacement, velocity, acceleration, and projectile motion. Explore how these concepts are applied in virtual environments and simulations.

Virtual Experiments: Utilize VR technology or physics simulation software to design and conduct virtual experiments on various aspects of motion. For example, simulate the motion of a projectile under different initial conditions, analyze the motion of objects on inclined planes, or explore the concept of circular motion.

Data Collection and Analysis: Record data from the virtual experiments, including measurements of displacement, velocity, and acceleration. Compare the results obtained from the simulations with theoretical predictions and real-world observations.

Report and Presentation: Compile your findings into a research report, including detailed descriptions of the virtual experiments, data analysis, and conclusions drawn. Prepare a presentation to share your research findings with classmates and teachers.

Expected Outcomes:

- Gain a deeper understanding of the principles of motion through hands-on virtual experiments.
- Explore the limitations and advantages of using virtual environments for studying physics concepts.
- Develop skills in data collection, analysis, and scientific communication.

J: Dimensional Analysis in Engineering Design:

Objective: The objective of this project is to investigate the application of dimensional analysis in engineering design and problem-solving.

Methodology:

Case Studies: Select several real-world engineering projects or designs where dimensional analysis played a crucial role. Examples may include the design of bridges, airplanes, or hydraulic systems. Research and analyse how dimensional analysis was used in these projects to optimize performance and efficiency.

Experimental Analysis: Design and conduct a series of small-scale experiments to demonstrate the principles of dimensional analysis. Choose a practical problem related to fluid mechanics, heat transfer, or structural mechanics, and investigate how different physical parameters affect the outcome.

Mathematical Modelling: Develop mathematical models based on the principles of dimensional analysis to predict the behaviour of complex systems. Use scaling laws and similarity criteria to derive dimensionless parameters and validate them through experiments or simulations.

Report and Presentation: Summarize your research findings and experimental results in a comprehensive report. Discuss the importance of dimensional analysis in engineering design, highlight key insights from the case studies, and present your own experimental data and analysis. Deliver a presentation to share your research with classmates and instructors.

Expected Outcomes:

- Gain insight into the practical applications of dimensional analysis in engineering design and problem-solving.

- Develop analytical and experimental skills through hands-on investigations and mathematical modelling.
- Enhance presentation and communication skills by conveying complex scientific concepts to a diverse audience.

Sr No.	Name	House No.	Project/Assignment Assigned
1.	Aarav Sharma	J00385	D
2.	Abhinandan Kumar Verma	R2625	E
3.	Abhitaj Sharma	S00370	F
4.	Akshat Sharma	J00386	G
5.	Akshayata Sharma	S2591	H
6.	Akshima	J00382	I
7.	Anahatjot Kaur Hari	S00432	J
8.	Deepika Michhal	J2758	D
9.	Dilpreet Singh Gill	J00471	E
10.	Divyanshi	J00613	F
11.	Ekampratap Singh Dhiman	R00403	G
12.	Gurjot Singh Sandhu	S00543	H
13.	Gurmukh Singh	R00486	I
14.	Gurupdesch Singh Chahal	S00433	J
15.	Ishmeet Kaur	J00518	D
16.	Jashanpreet Singh	J2666	E
17.	Kanwar Jaideep Singh Brar	J00379	F
18.	Khushpreet Singh	S00439	G
19.	Kudrat Kaur Rai	B2643	H
20.	Kuwaradeshwar Singh	B2608	I
21.	Manseerat Singh	R00455	J
22.	Manvir Singh	S2582	D
23.	Mehtaab Singh Dhillon	B00492	E
24.	Mehtab Singh Benipal	R00495	F
25.	Naman Goyal	R00494	G
26.	Naunihal Singh Dhillon	S00499	H
27.	Nehmat Kaur Dhanda	B00493	I
28.	Pargreen Kaur Sohi	B2707	J
29.	Pratap Singh	B00494	D
30.	Preetinder Kaur	R00404	E
31.	Runsher Singh Dhillon	J00575	F
32.	Satyajeet Singh	S00371	G
33.	Sidakjot Kaur	B2704	H
34.	Siddharth Bhardwaj	S00311	I
35.	Simran Kaur Gill	S00437	J
36.	Smyla Choudhary	J2756	D
37.	Sohana Ahmed	J00380	E

GEOGRAPHY

Students have been instructed to prepare project work on any of the following topics:

(i) Take any physical feature in your immediate locality: (a) draw sketches or take photographs to highlight physical features. (b) survey how these features have been used and prepare a report. (c) suggest ways by which the area of study could be better used keeping in view the needs of the people of the region.

OR

(ii) Choose any island area of the world or India and: (a) trace the map of the area and show physical features, towns and port cities. (b) prepare a project report using photographs and pictures from brochures and magazines to show: - its origin and formation. - soil types, vegetation, human occupations.

OR

(iii) Any natural hazard like drought, flood, erosion, landslides, etc. in a local area. Choose a natural hazard in the local area. Describe the nature of damage by consulting newspaper reports, studies, interviews with local people. Identify the nature of damage before and after – land, building, public property, soil, vegetation, animals, etc. What are the chances of it occurring again and what precautions are being taken?

INSTRUCTIONS:

- Project work has to be submitted in a separate file.
- First page should provide your personal information.
- Second page should show the content (index).
- Draw margins on both sides of the sheet.
- Sheet number should be written on the right corner of the sheet.
- Use pencils/colours to draw the diagrams.
- Use diagrams/tables/illustrations wherever required.
- Do not use photocopied pictures.
- Project work must have an introduction and conclusion.
- Students are required to solve **Class XI Unit Term Question Paper**(Geography).

POLITICAL SCIENCE

1. When did the Cold War begin?

- a) 1945 b) 1947
c) 1950 d) 1955

2. Which two superpowers were involved in the Cold War?

- a) United States and Germany b) United States and Soviet Union
c) United States and China d) Soviet Union and China

3. What was the main ideological conflict between the US and the Soviet Union during the Cold War?

- a) Capitalism vs. Communism
- b) Democracy vs. Monarchy
- c) Nationalism vs. Fascism
- d) Socialism vs. Totalitarianism

4. Which event marked the beginning of the Cold War?

- a) The Cuban Missile Crisis
- b) The Berlin Wall construction
- c) The Soviet Union's invasion of Afghanistan
- d) The dropping of atomic bombs on Hiroshima and Nagasaki

5. What was the policy of containment during the Cold War?

- a) Encouraging the spread of communism
- b) Limiting the spread of communism
- c) Encouraging the spread of capitalism
- d) Limiting the spread of capitalism

6. Which organization was formed in response to the perceived threat of Soviet expansion during the Cold War?

- a) NATO
- b) WTO
- c) UNICEF
- d) OPEC

7. The Marshall Plan aimed to:

- a) Rebuild Western Europe after World War II
- b) Spread communism in Eastern Europe
- c) Establish a military alliance against the Soviet Union
- d) Create a new economic system based on socialism

8. What was the purpose of the Berlin Airlift?

- a) To supply West Berlin during a Soviet blockade
- b) To evacuate East Berlin during a Soviet invasion
- c) To transport refugees from East to West Berlin
- d) To deliver military aid to West Berlin

9. Which country did the United States support in the Korean War?

- a) North Korea
- b) South Korea
- c) China
- d) Soviet Union

10. What was the significance of the Cuban Missile Crisis?

- a) It brought the world to the brink of nuclear war.
- b) It led to the collapse of the Soviet Union.
- c) It established peaceful relations between the US and Cuba.
- d) It resulted in the overthrow of Fidel Castro.

11. When did the Soviet Union officially disintegrate?

- a) 1985
- b) 1989
- c) 1991
- d) 1993

12. Who was the last leader of the Soviet Union?

- a) Leonid Brezhnev
- b) Nikita Khrushchev
- c) Mikhail Gorbachev
- d) Boris Yeltsin

13. What was the policy initiated by Mikhail Gorbachev to reform the Soviet Union?

- a) Glasnost
- b) Perestroika
- c) Détente
- d) Communism

14. Which of the following republics was the first to declare independence from the Soviet Union?

- a) Ukraine
- b) Belarus
- c) Lithuania
- d) Kazakhstan

15. What event marked the beginning of the end for the Soviet Union?

- a) The Chernobyl nuclear disaster
- b) The collapse of the Berlin Wall

- c) The dissolution of the Warsaw Pact d) The failed coup attempt against Gorbachev
- 16. What was the name of the treaty that dissolved the Soviet Union and established the Commonwealth of Independent States (CIS)?**
- a) Treaty of Minsk b) Treaty of Brest-Litovsk
c) Belavezha Accords d) Treaty of Versailles
- 17. Which of the following leaders played a significant role in the independence movements of the Baltic states?**
- a) Boris Yeltsin b) Mikhail Gorbachev
c) Lech Walesa d) Vaclav Havel
- 18. Which republic experienced a violent conflict between Armenians and Azerbaijanis following the collapse of the Soviet Union?**
- a) Georgia b) Azerbaijan
c) Armenia d) Ukraine
- 19. What economic crisis contributed to the disintegration of the Soviet Union?**
- a) Hyperinflation b) Economic boom
c) Trade surplus d) Currency stability
- 20. After the disintegration of the Soviet Union, which country emerged as the largest successor state?**
- a) Russia b) Ukraine
c) Kazakhstan d) Belarus

COMPUTER SCIENCE

ASSIGNMENT WORK

1. Solve Unit – Examination Paper in your fair notebook.
2. Read the following chapter from book:

Trends in computing and ethical issues

- (a) Artificial Intelligence, Internet of Things, Virtual Reality and Augmented Reality.
Brief understanding of the above and their impact on Society.
- (b) Cyber Security, privacy, netiquette, spam, phishing.
Brief understanding of the above.
- (c) Intellectual property, Software copyright and patents and Free Software Foundation.
Intellectual property and corresponding laws and rights, software as intellectual property.
Software copyright and patents and the difference between the two; trademarks; software licensing and piracy. free Software Foundation and its position on software, Open Source Software, various types of licensing (e.g. GPL, BSD).

Prepare a speech on Social impact and ethical issues. The important thing is for students to realize that these are complex issues and there are multiple points of view on many of them and there is no single ‘correct’ or ‘right’ view.

DO THE QUESTION ANSWERS IN THE NOTEBOOK.

MCQ TEST ON THE ABOVE CHAPTER ON REPORTING AFTER BREAK.
YOU WILL ALSO BE ASKED TO PRESENT YOUR PREPARED SPEECH.
THE TEST MARKS AND MARKS OF YOUR SPEECH WILL BE ADDED TO MID
– TERM MARKS.

Note : Scan your work (Q & A from notebook and prepared speech) and mail it to abhisheksinghpps@gmail.com by 25th July 2024.
[Any copied work will be marked 0]

PROJECT - WORK

1. Develop a console-based application using Java to convert decimal to binary and vice – versa.
2. Develop a console-based application using Java to convert decimal to octal and vice – versa.
3. Develop a console-based application using Java to convert decimal to hexadecimal and vice – versa.
4. Develop a console-based application using Java to convert octal to hexadecimal and vice – versa.
5. Develop a console-based application using Java to encrypt and decrypt a message (using cipher text, Unicode-exchange, etc).
[Use Internet to get some encrypting and decrypting rules]
6. Develop a console-based application using Java to calculate taxable income (only direct tax).
[Use Internet to find the latest rules of taxable income and income tax calculation]

In all the above projects include the following features:

Input Validation:

Ensure that the program validates the user input to check for errors and only accepts valid values.

User-friendly Interface:

Design an intuitive and user-friendly interface that allows users to input with proper messaging and choices.

The program should only end when the user wants to exit.

Error Handling:

Implement error handling mechanisms to handle exceptional scenarios, such as invalid input or unsupported values.

Remember to plan and organize your project, break it down into smaller tasks, and ensure proper documentation and code structure.

Try to first plan your project with the help of Algorithm and Flow Chart.

[Note : Scan your work and mail it to abhisheksinghpps@gmail.com by 25th July 2024. Your submitted work will be marked out of 50 and will be part of your TERMINAL exam marks

Any copied work will be marked 0]

PHYSICAL EDUCATION

- Q.1.To prepare Practical file. Write down the rules of the games of HOCKEY and FOOTBALL with proper diagrams of the fields.(Books)
- Q.2.Why is goal keeping important? What skills are required by the goal keeper?
- Q.3.Write a short note on players equipment?
- Q.4.What is the procedure of taking a throw-in?
- Q.5 Explain the offences committed by a player for which the yellow card is shown?
- Q.6.When is the ball in play and out of play?
- Q.7. How to decide the winner if the final match of the tournaments draws?
- Q8.Write down the situation when a direct free is awarded ?
- Q.9.Explain the following terms :-
- i) Corner Kick ii) Chest Trap
- Q.10. What technical equipment required to conduct the hockey match.
- Q.11. List any five circumstances when an opponent gets a free hit.
- Q.12.What equipment should the umpire carry during a match?
- Q.13.When is a goal considered to have been scored in a match.
- Q.14.Write any five duties of a referee in hockey.
- Q.15.What is the importance of Shooting – Circle or ‘D’ area?
- Q.16.Write down the names of Arjun-awarades?
- Q.17.Explain the following:-
- i) Temporary Suspension ii) Flick

SOCIOLOGY

PART I

(REVISION)

(Long Questions - write the key words of each question)

1. Nature, scope and subject matter of sociology.
2. Concept of Bureaucracy, The law of three stages

PART II

Do project work on any one current social problem

Format of the file is as follows-

- Cover page
- Index

- Chapter- 1 – Introduction
- Chapter 2- Review of Literature
- Chapter-3 – Hypothesis & Objectives
- Chapter-4 – Research Methodology
Your research methodology discusses and explains the data collection and analysis methods you used in your research
- Chapter -5 – Findings
- Chapter-6 - Conclusion
- Bibliography- books & Internet sites (web address)
- Appendix - pictures

- Project must be done in practical file.
- Students can use the various internet sites, read PDF files and online books related to the topic
- Introduction should be of 2 pages and review of literature should be of 1 page.
- Write down specific and relevant set of questions for the interview related to your topic
- Bibliography: Web- address of each web site along with date and time must be noted.
- Collect some pictures, newspaper cuttings and any others evidences related to your topic.

LEGAL STUDIES

1. Research the following case studies and submit your findings :

- (i) Star India (P) Ltd. V. Piyush Agarwal & Ors,
C.S. (O.S.) No. 2722/2012, Del HC
- (ii) Super Cassettes Industries Limited V.
YouTube & Google

2. Write a short note on :

- (a) Natural School of Law
- (b) Sociological School of Law
- (c) Realistic School