



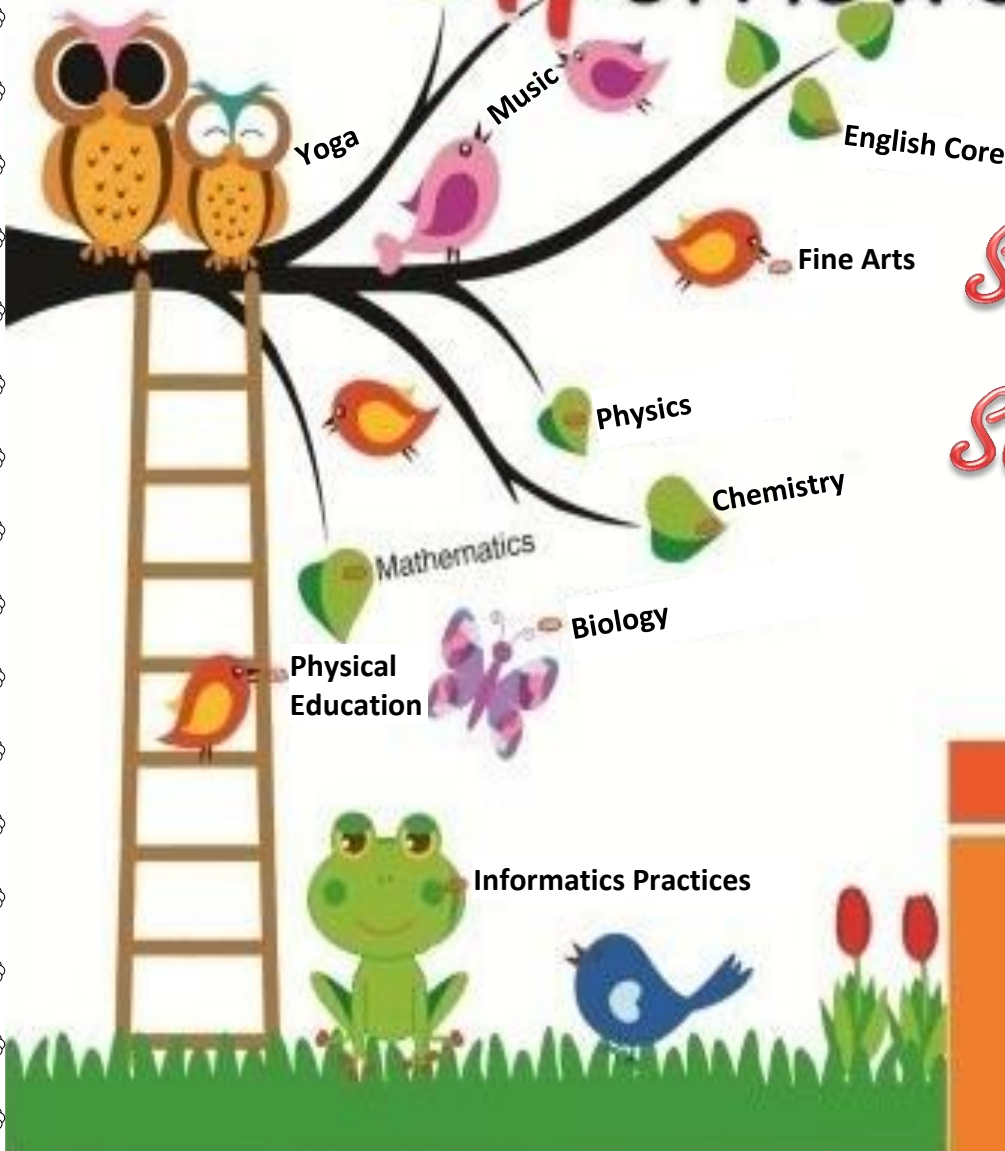
BCM School, Pakhowal Road,
Basant City, Ludhiana

Holidays Homework

2023

STD. XII

SCIENCE



ENGLISH CORE

(PROJECT WORK)

ASSESSMENT OF LISTENING AND SPEAKING SKILLS (ALS) PROJECT 2023-24

INSTRUCTIONS FOR MAKING THE PROJECT

- The marks allotted for ASL PROJECT: 10 marks (5 for Project+ 5 for Viva)
- Choose any ONE from the below given topics.
- Viva based on the project will be taken by the internal examiner.
- The portfolio of project may include all the points given in each project.
- The project must contain at least 20-25 sheets.
- Use as many pictures /photographs as you require.
- Use sketch pens for headings and coloured pens for content.
- Use A4 size coloured /designer paper sheets for the project and after compiling everything it should be submitted in spiral binding / Project file.

NOTE: THE PROJECT SHOULD BE HANDWRITTEN

PROJECT 1: PLIGHT OF OLD AGED PEOPLE

1. Index
2. Acknowledgement
3. Certificate of Completion
4. Objectives
5. About the Poetess (with photos)
6. Poetess' Personal Experience - Common Paradox of Human Relationships
7. Portrayal of Sensational Separation Between a Mother and a Daughter
8. Plight of Old Aged People : Ugly Truth About Old Age (with photos)
9. Reasons Behind the Need of Old Age Homes
10. Efforts for Stress-Free and Secured Life of Aged People
11. Visit to an Old Age Home (photos of some aged people living in such homes)
12. How to Strike a Balance Between Duties and Responsibilities of Children and Society
13. Role of Youth to Improve the Plight of Aged People
14. Bibliography or References

PROJECT 2: INDIGO – THE EMANCIPATION OF SHARECROPPERS BY MAHATMA GANDHI

1. Index
2. Acknowledgement
3. Certificate of Completion
4. Objectives
5. About the author
6. What is Indigo Sharecropping? (Brief history)
7. Natural Indigo Harvesting and its uses (pictures)
8. Theme of Indigo
9. Role of Rajkumar Shukla
10. Summary of Indigo
11. Efforts by Gandhi to put an end to Sharecropping in Champaran
12. Gandhi as an effective leader
13. Bibliography

PROJECT 3: THE RATTRAP: ESSENTIAL GOODNESS CAN BE AWAKENED THROUGH UNDERSTANDING AND LOVE.

1. Index
2. Acknowledgement
3. Certificate of Completion.
4. Objectives
5. Author's Biography (With Pictures)
6. Introduction: THEME- loneliness/ need for a bonding/ faith in humanity/ kindness/ compassion
7. Summary and analysis
8. Character sketch of major characters
9. The letter by Rattrap peddler- Significance
10. Bibliography or References.

PROJECT 4: A THING OF BEAUTY AND IT'S ROLE IN HUMAN LIFE

1. Index
2. Acknowledgement
3. Certificate of Completion
4. Objective
5. About author John Keats (pictures)
6. Different characteristics of nature like it's eternal, changeless, perfect, source of true happiness, etc.) (Beautiful pictures of Nature)
7. Comparison of human life and Nature (1 page)

For example:

HUMAN	NATURE
Change	Changeless
Mortal	Immortal
Death & \Decay	Eternal

8. Description of beautiful things in nature like
 - Rivers: Symbol of excitement, adventure, healing, never ending supply of life...
 - Sun: equality, light, hope royalty, divinity, positivity power..
 - Trees: lively, wisdom, prosperity, transformation...
 - Animals: divine, moving, growing, fertility, happiness elegance, strength, energy wisdom....
 - Flowers: purity, hope, beautiful, Innocence, humility, youthful....
 - Beauty of Mighty dead : Stories of Saints and sages ,their work and deeds, how they immortalized themselves (Maximum 6 -7 pages with pictures)
9. Any 10 Central idea of -THING OF BEAUTY.
10. Bibliography or References.

PROJECT 5: CHILD LABOUR IN INDIA (LOST SPRING}

1. Index
 2. Acknowledgement
 3. Certificate of Completion
 4. Objective
 5. Child Labour with reference to Lost spring (summary)
 6. Lives of children like Saheb and Mukesh
 7. Describe – Seemapuri (with pictures)
 8. Hazards of Bangle making industry
 9. Initiative against child labour by Indian government Various NGOs
 10. SOS Children's Village in India
 11. The Child Labour Prohibition And Regulation Act, 1986
 12. Ways to eliminate child labour
- Bibliography
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ACKNOWLEDGEMENT

I would like to extend my sincere and heartfelt obligation towards all those who have helped me in making this project. Without their active guidance, help, cooperation and encouragement, I would not have been able to present the project on time.

I am extremely thankful and pay my sincere gratitude to my teacher _____ for her valuable guidance and support for completion of this project.

I also acknowledge with a deep sense of reverence, my gratitude towards my parents, other faculty members of the school and friends for their valuable suggestions given to me in completing the project.

Date:

Place:

CERTIFICATE OF COMPLETION=

CERTIFICATE

This is to certify that the project work on _____ based on the curriculum of CBSE has been completed by of BCM SCHOOL,BASANT CITY, LUDHIANA The above mentioned project work has been completed under my guidance during the academic year 2022-23.

Signature of Teacher

CHEMISTRY

- 1) Revise ch - (solution & electrochemistry)
- 2) Write down all NCERT questions (both Intext and Back-exercise) of ch - Haloalkane and Haloarene in chemistry notebook.
- 3) Complete your Practical notebook and prepare any one project on the topic prescribed by CBSE, or -
 - rusting of iron
 - solution
 - food adulteration
 - cell (different type of electrochemical and electrolytic cell)+ chemistry notebook

PHYSICS

- 1) Revise ch - (Magnetic effects of current)
- 2) Write down all NCERT questions (both Intext and Back-exercise) of chapters Current Electricity and Magnetic effects of current in physics notebook.
- 3) Complete your Practical notebook (ruled side) and prepare any one project (working model) on the topic prescribed by CBSE.

BIOLOGY

NOTE:-

- Do this work on assignment sheets.
- Here is the list of topics, choose any one and make it with the help of
- Biology reference books and internet.
- Project should be investigatory.
- Paste pics and you can draw diagrams also.

❖ LIST OF TOPICS: -

- HUMAN REPRODUCTIVE CLONING AND BIOTECHNOLOGY
- STUDY OF GENE THERAPY
- NANOTECHNOLOGY METHODS FOR DNA ISOLATION
- ASSISTED REPRODUCTIVE TECHNOLOGIES
- GEL ELECTROPHORESIS
- DNA FINGERPRINTING
- DRUG ADDICTION
- HUMAN WELFARE
- RECOMBINANT DNA TECHNOLOGY IN MEDICINES
- MICROBES IN HUMAN WELFARE
- STUDY OF EFFECTS OF ANTIBIOTICS ON MICRO-ORGANISMS

Make practical file also as per the syllabus given by CBSE

Revise and learn the syllabus which we had done and solve the NCERT questions

PHYSICAL EDUCATION

Record File shall include:

PRACTICAL-1

Fitness tests administration

PRACTICAL-2

Procedure for Asanas, Benefits and Contraindication for any five Asanas for each lifestyle disease.

PRACTICAL-3

Anyone one IOA recognised Sport/Game of choice. Labelled diagram of field and equipment. Also mention its Rules, Terminologies and Skills

PRACTICAL-4

Project file on IPL 2023

INFORMATICS PRACTICS

1. Explain Python PANDAS Series. Write any 3 Python programs that are suitable examples for different Series attributes.
2. Explain Python PANDAS Dataframe. Write any 4 Python programs that are suitable examples for different Dataframe attributes.
3. Explain different graphs/charts available with Data Visualisation and mention the functions with examples for plotting graph using matplotlib library.
4. Learn any 10 SQL functions from ch.6 MySQL Functions and write down.

MUSIC

Project work

- Students have to prepare the project file

Guidelines for preparing file

- Practical file should be handwritten.
- File should be presented neatly.

Contents for project will be

- 1) Talas along with single, double, tigung, chogun
 - i. Dhamar Tala
 - ii. Roopak Tala
 - iii. Jhap Tala
- 2) Write any one life sketch
 - i. Ustad Abdul Karim Khan
 - ii. Ustad Faiyaz Khan
 - iii. Pt. Krishna Rao Shankar Pandit
 - iv. Ustad Bade Ghulam Ali Khan.
- 3) Ragas: full description and notation
 - i. Bhairav
 - ii. Malkauns
 - iii. Bageshri

(paste pictures of musical instruments and musicians)

FINE ARTS

INSTRUCTIONS:

- **ALL 3 Projects of Holidays H.W. are compulsory.**
- **Work should be Presentable and neat, only presentable work should be accepted.**

Project 1 - Make 1 Landscape on A2 sized sheet, 2 Still -Life sheets on A2 sized sheets and 2 Composition paintings on Topic Folk art of Punjab and Odisha.

EXAMPLES:-



PROJECT 2 - 1 Lippon art A4 Sized on cardboard or canvas with Mirror work.

EXAMPLES:-



**PROJECT 3 - Make an Assignment file with pictures pasting on given topic
(take help from theory book) - Choose any one out of three topics.**

- 1. Painting of Modern Trends in Indian art.**
- 2. Graphic prints of Modern Trends in Indian art.**
- 3. Sculptures of Modern Trends in Indian art.**

YOGA

- * **Surya Namaskar**
- * **Asana (any 5)**
- * **Pranayama (any 2)**
- * **Bandh**
- * **Mudra**

MATHEMATICS

1. Relations and Functions.....

To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m): l \text{ parallel to } m\}$ is an equivalence relation.

2. Relations and Functions.

To demonstrate a function which is not one-one but is onto.

3. Inverse Trigonometric Functions.....

To draw the graph of $\sin x$, using the graph of $\sin^{-1} x$ and demonstrate the concept of mirror reflection (about the line $y = x$).

4. Limits and Continuity

To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.

5. Applications of Derivatives (Increasing and Decreasing Functions).

To understand the concepts of decreasing and increasing functions.

6. To understand the concepts of local maxima, local minima and point of inflection

7. Applications of Derivatives (Maxima and Minimal

To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares

8. Applications of Derivatives (Maxima and Minima),

To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.

9. Vectors

To verify that angle in a semi-circle is a right angle, using vector method.

10. Three Dimensional Geometry

To locate the points to given coordinates in space, measure the distance between two points in space and then to verify the distance using distance formula.