

आचार्यकुलम्

शिक्षा
संस्कारः



अभ्युदयः
निःश्रेयसः

Acharyakulam

A Vaidic Integrated BSB affiliated Residential (Co-ed) Educational Institute

SUMMER HOLIDAY Homework

(2026-2027)

X

Theme

**Equality for All: Building a Fair and
Inclusive Society**

ENGLISH

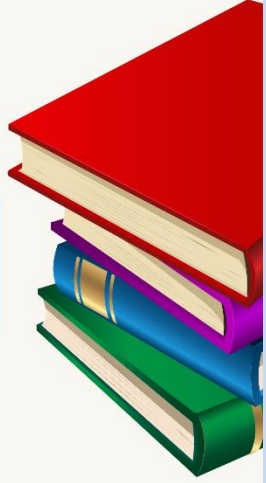
SANSKRIT

MATHEMATICS

SCIENCE

SOCIAL SCIENCE

I. T.



**THEME: EQUALITY FOR ALL: BUILDING A FAIR
AND INCLUSIVE SOCIETY**

CLASS X

SUMMER HOLIDAY HOMEWORK

2026-27

SUBJECT: ENGLISH

Instructions-

- Complete the homework neatly on A4 size sheets.
- Use colors, drawings and creative presentation wherever required.
- Maintain proper headings and structured work.
- Show originality, use real-life examples, and add creative elements where possible.
- Revise and practice all work done in class along with this holiday homework.

NOTE: **CLASS X A- ATTEMPT ANY TWO QUESTIONS.**
 CLASS X B & C: ATTEMPT ANY FOUR QUESTIONS

Literature

1. Lencho calls the post office employees a "bunch of crooks" because he lacks the exposure to understand collective human charity. How does unequal access to quality education limit a person's understanding of the world and hinder social trust? (**A Letter to God**)
2. Mandela states that "the oppressor must be liberated just as surely as the oppressed." Explain how a system of inequality and discrimination strips away the humanity of *both* the privileged and the marginalized groups. (**Long Walk to Freedom**)
3. The young seagull's parents isolate him and threaten to let him starve until he flies. In the context of building a fair society, can this "tough love" approach be justified as a way of forcing an individual to achieve equal capability as their peers? (**Two stories about flying**)
4. Ausable defeats Max using wit and presence of mind rather than physical force or weaponry. How does intellectual agility act as a great equalizer against brute strength or systemic power? (**The Midnight Visitor**)

Activity Based Questions: -

5. Imagine a family like Lencho's lives in your neighborhood and faces a crisis. Design an info graphic or a 1-page "Community Support Plan" outlining 3 practical ways

local citizens can pool resources to ensure vulnerable families are treated with equal dignity. (A Letter to God)

Writing Long Composition: -

6. Write an analytical paragraph in about 100–120 words on the topic "Equality for All." Analyze the progress society has made toward equal opportunities and compare it with the ongoing challenges, such as wealth gaps and social biases, that still exist today.
7. Write a 120-word monologue from the perspective of Hari Singh ten years into the future. Reflect on how Anil's inclusive behavior, trust, and education saved him from a life of discrimination and crime, allowing him to live as an equal citizen.

विषय – संस्कृत

कृपया समस्त कार्य पृथक् टिप्पणी पुस्तिका में लिख कर लायें ।

कक्षा X-A के विद्यार्थी नीचे दिए गए 6 कार्यों में से केवल प्रश्न संख्या 6 करेंगे।
तथा कक्षा X-B एवं X-C के विद्यार्थी सभी प्रश्न करेंगे।

- 1- स्व-पाकशालायाम् उपलब्ध-खाद्य- वस्तुनां नामानि तेषां पात्रेषु संस्कृते विलिख्य छाया चित्राणि A4 sheet कर्गदे संश्लेश्य आनयन्तु ।
- 2- प्रथम, द्वितीय एवं तृतीय पाठेषु आगतानां समस्त सन्धि-समास-प्रत्यय-शब्दानां चयनं कृत्वा एकस्यां लघु-टिप्पणी पुस्तिकायां विलिख्य आनयन्तु ।
- 3- सामूहिकं यज्ञं कृत्वा सामूहिकं योग प्रशिक्षणं च दत्वा तस्य सामूहिक छायाचित्रम् एकस्मिन् A4 sheet कर्गदे संश्लेश्य तस्य विवरणं संस्कृतेन लिखत ।
- 4- किम् शब्दस्य त्रिषु लिंगेषु, अस्मद्, युष्मद्शब्दानां रूपाणि स्मृत्वा संचिकायां लिखन्तु ।
- 5- अधोलिखित-क्षेत्रेषु समावेशी समानता भवेत् एतदर्थं भवन्तः किं करिष्यन्ति ?
एकपृष्ठात्मकः लेखः लेखनीयः -
 - i) शिक्षायाम्
 - ii) सामाजिक-क्षेत्रेषु
 - iii) राजनैतिक-क्षेत्रेषु
- 6- क्रिया कलाप -

क्रम.सं	दिनाङ्कः	अभिवादनम्	योग :	यज्ञः	भोजनमन्तः	संस्कृतवाक्यम्	शयनमन्तः	अभिभावक -हस्ताक्षरम्
1.	27.05.26							
2.	28.05.26							
3.	29.05.26							

4.	30.05.26							
5.	31.05.26							
6.	1.06.26							
7.	2.06.26							
8.	3.06.26							
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10.	5.06.26							
11.	6.06.26							
12.	7.06.26							
13.	8.06.26							
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28.	23.06.26							
29.	24.06.26							
30.	25.06.26							

धातव्य-

1. भो छात्र ! प्रतिदिन आपको उपरोक्त क्रिया कलाप अवश्य करने हैं और प्रतिनित्य अपने अभिभावकों के हस्ताक्षर इस आशय से कराने हैं कि आपने उनके समक्ष किया है ।
2. प्रतिदिन किये गये क्रिया कलाप को चित्र के माध्यम से प्रमाण सहित उपस्थित करना अनिवार्य है ।
3. संस्कृतवाक्य में प्रतिदिन अपने अभिभावकों एक-एक संस्कृत का वाक्य सिखाना है ।
4. इस गृहकार्य के अंक आपके आंतरिक मूल्यांकन (**Internal Assessment**) के क्रियाकलाप (**Activity**) में जोड़े जायेंगे ।

SUBJECT: MATHEMATICS

This Mathematics project integrates real-life situations across different Indian states to highlight various forms of equality through Case Study such that:

- Gender Equality
- Economic Equality
- Educational Equality
- Social Equality
- Opportunity Equality

Instructions for Students

1. Preparation Method:

- Read each case study carefully.
- Solve all mathematical questions with proper steps.
- Explain answers logically wherever interpretation is required.
- Make Attractive Cover Page, Certificate Page, Index Page, Acknowledgement Page and Bibliography & Conclusion Page.

2. Material to be Used:

- A4 size ruled or plain project file.
- Only blue and black pen for writing, pencil for diagrams.
- Charts, colored pens, sketches and graphs for presentation.

3. Number of Pages/Work Required:

- Minimum 10–12 pages project file.
- Every Case Study per chapter on new sheet. Paste a question based colored picture on each case study or the colorful map of the state.
- Include diagrams, tables, charts, or models wherever applicable.

4. Submission Guidelines:

- Submit neatly bound decorated clip project file (Handmade)

- All solutions must be handwritten.
- Write student name, class, section and roll number on cover page.
- Submit on the assigned submission date.

5. Creativity & Research Expectations:

- Add real examples from India related to equality.
- Use creative headings, drawings and color coding.
- Include reflections on how Mathematics supports equality in society.

TASK 1(FOR CLASS X SECTION A, B & C STUDENTS): CASE STUDY
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1. Pair of Linear Equations – Rajasthan

Case Study: Girls' Education Campaign – Rajasthan

In some rural areas of **Rajasthan**, awareness programs encourage equal enrolment of boys and girls in schools. A school enrolled student such that:

Total students = 120. Girls are 10 more than twice the number of boys.

Questions:

1. Let number of boys = x and girls = y . Form two linear equations.
2. Solve the equations and find number of boys and girls.
3. Verify whether gender equality improved if girls form more than 60% of total students.
4. If next year both increase equally by 15 students, will equality remain balanced?

2. Real Numbers (HCF & LCM) – Bihar

Case Study: Mid-Day Meal Distribution – Bihar

In a government school in Bihar, equal food distribution is planned.

Rice packets = 72 kg

Dal packets = 108 kg

Dal packets = 108 kg

Food must be packed into equal-sized kits without wastage.

Questions:

1. How many equal food kits can be prepared?
2. Find quantity of rice and dal in each kit.
3. Explain how HCF helps maintain economic equality in distribution.

3. Surface Area & Volume – Kerala Housing

Case Study: Low-Cost Housing Project – Kerala

A housing scheme in **Kerala** provides equal housing to economically weaker families.

Each house consists of:

- A **cuboidal room**: $6\text{ m} \times 5\text{ m} \times 4\text{ m}$
- A **hemispherical dome roof** of radius 300 cm.

Questions:

1. Find volume of cuboidal part.
2. Find volume of hemispherical roof.
3. Calculate total volume of house.
4. If paint costs ₹20 per 50m^2 , find cost of painting outer surface area. If the outer dimensions are same as inner dimensions.
5. Explain how equal housing design promotes social equality.

4. Probability – Haryana Sports Selection

Case Study: Equal Sports Opportunities – Haryana

A school in **Haryana** ensures equal sports opportunities.

Sports team selection box contains slips:

- x Girls' names
- 4 Boys' names

One student is selected randomly.

Questions:

1. If number of girls are increased by 7, the probability that selected student is a boy become $\frac{3}{4}$. Find number of slips contain girls' names in Sports team selection box.
2. Find probability that selected student is a boy.
3. Is selection fair if probabilities depend only on participation numbers?
4. If 5 more boys join, find new probability of selecting a girl.

5. Area Related to Circles – Maharashtra Park

Case Study: Equal Access to Public Park – Maharashtra

A circular park in **Maharashtra** is built for equal community access.

- Radius of park = 14 m
- A circular walking track of width 3 m surrounds it.

Questions:

1. Find area of entire park including track.
2. Find area of walking track only.
3. If equal space is divided among 12 community groups, find area per group.
4. If each community is provided a curved gate, find the length of gate.

6. Statistics - Mean, Median & Mode (Grouped Data)

Case Study: Rural vs Urban Digital Access Programme (Uttar Pradesh)

Background

Digital devices were distributed to reduce educational inequality.

Grouped Data (Online Learning Hours per Week)

Hours	Number of Students
0–5	6
5–10	14
10–15	18

Hours	Number of Students
15–20	12
20–25	7
25–30	3

Questions

1. Find Mean learning hours using assumed mean method.
2. Calculate Median hours.
3. Determine Mode using empirical formula i. e. $3\text{Median}=2\text{Mean}+\text{Mode}$

TASK 2: WORKSHEET (FOR CLASS X SECTION B & C STUDENTS)

Solve all the questions neatly on A4 sheets and arrange them along with the task 1 in the same handmade file.

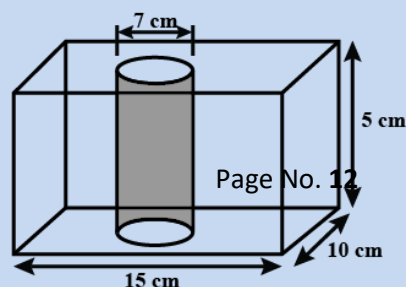
1. If the mean of the following frequency distribution is 65.6, find the missing frequencies f_1 and f_2 .

Class	10-30	30-50	50-70	70-90	90-110	110-130	Total
Frequency	5	8	f_1	20	f_2	2	50

2. If the median of the following frequency distribution is 32.5, find the value of f_1 and f_2 .

Class interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	Total
Frequency	f_1	5	9	12	f_2	3	2	40

3. In the given figure, from a cuboidal solid metallic block of dimensions 15 cm x 10 cm x 5 cm, a cylindrical hole of diameter 7 cm is drilled out. Find the surface area of the



remaining block.

4. A wooden toy rocket is in the shape of a cone mounted on a cylinder. The height of the entire rocket is 26 cm, while the height of the conical part is 6 cm. The base of the conical portion has a diameter of 5 cm, while the base diameter of the cylindrical portion is 3 cm. If the conical portion is to be painted orange and the cylindrical portion yellow, find the area of the rocket painted with each of these colours. [Take $\pi = 3.14$].
5. On a morning walk, three person's steps off together and their steps measure 40 cm, 42 cm, and 45 cm respectively. What is the minimum distance each should walk, so that each can cover the same distance in complete steps?
6. During a sale, colour pencils were being sold in the pack of 24 each and crayons in the pack of 32 each. If you want full packs of both and the same number of pencils and crayons, how many packets of each would you need to buy?
7. The age of the father is twice the sum of the ages of his two children. After 20 years, his age will be equal to the sum of the ages of his children. Find the age of the father.
8. Two numbers are in the ratio 5: 6. If 8 is subtracted from each of the numbers, the ratio becomes 4:5. Find the numbers.
9. Area of a sector of a circle of radius 36 cm is 54π cm². Find the length of the corresponding arc of the sector.
10. A piece of wire 11 cm long is bent into the form of an arc of a circle subtending an angle of 45° at its centre. Find the radius of the circle. Also find the area of corresponding major sector.

SUBJECT: SCIENCE

FOR SECTION A, B & C STUDENTS

Task 1: Complete the following activity by comparing common social beliefs with scientific facts. Also write a short explanation for each scientific fact showing how biology helps in promoting equality and social awareness.

Social Belief	Scientific Fact	Your Explanation
1. Mother determines the sex of the child	Father's chromosome determines the sex of the child	80-100 words
2. Girls are weaker than boys	Both genders have equal biological importance	80-100 words
3. Discrimination is natural	Equality is essential for a healthy society	80-100 words

Task 2: Write a short conclusion of 80-100 words at the end on the importance of equality and scientific awareness in society.

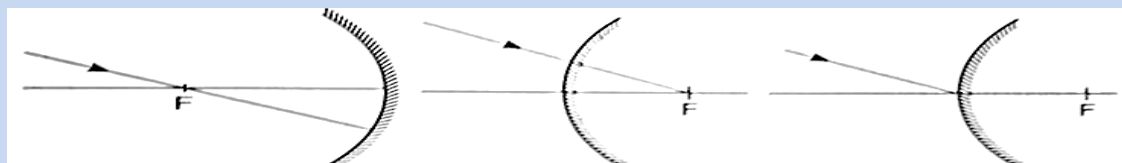
Instruction for Task 1 and 2:

1. Complete the activity on one A4 size sheet for each point.
2. The work must be handwritten neatly.
3. The work must include:
 - The social belief (given in the question)
 - The scientific fact (given in the question)
 - A short explanation (your explanation)
4. Word Limit: 80–100 words for each explanation.

TASK 3: WORKSHEET FOR SECTION B & C STUDENTS ONLY

Instruction for Task 3: Do Q1 to Q5 in Physics notebook and Q6 to Q8 in Chemistry Notebook.

Q.1. Complete the following diagram in which a Ray of light is incident on a concave and convex mirror on your answer sheet.



Show the path of this Ray after reflection in each case.

Q.2. During a science exhibition a student wants to project the image of a candle flame on a screen 80 cm in front of a mirror by keeping the candle flame at a distance of 20 cm from its pole.

- a) Which type of mirror should the student use?
- b) Find the distance between the object and its focus.
- c) Find the magnification of the image produced.

Q.3 A student of class X placed the object in front of a convex lens at different distance from it and recorded the image distance as per the given data in the following table.

S. No	Object distance 'u' in cm	Image distance 'v' in cm
1	-60	+12
2	-30	15
3	-20	20
4	-15	30
5	-12	60
6	-9	+90

Read the above paragraph and answer the following questions.

- a) Find the focal length of the convex lens.
- b) At which position of the object from the lens, the image formed by the above convex lens will be real, inverted and magnified.

c) Can a convex lens be used as a magnifying glass? State the reason.

Q.4. a). Draw a ray diagram to show the image formation by a concave mirror when the object is placed between the pole (P) and the focus (F). State the nature, size, and position of the image formed.

b) An object is placed at a distance of 20 cm from a convex lens of focal length 10 cm. Find the position and nature of the image using the lens formula.

Q.5. A person got his eyes tested by an optician. The prescription for the spectacle lenses to be made reads: Left eye: + 2.50 D Right eye: + 2.00 D

(a) State whether these lenses are thicker in the middle or at the edges.

(b) Find out the focal length of each lens.

(c) Which lens bends the light rays more strongly?

(d) State whether these spectacle lenses will converge light rays or diverge light rays.

Q.6. Give reason for the following questions:

(a) Magnesium ribbon is rubbed with sand paper before burning.

(b) Lime water turns milky and then colourless on passing excess carbon dioxide through it.

(c) Walls shine bright 2-3 days after white wash.

(d) Packets of chips are flushed with nitrogen.

(e) Gas collected at anode is half in volume as compared to gas collected at cathode during electrolysis of water.

Q.7. Write your observations and balanced chemical equations for the following chemical changes:

(a) Sulphuric acid reacts with Zinc.

(b) Nitric acid reacts with calcium carbonate.

(c) Carbonic acid reacts with sodium hydroxide.

(d) Hydrochloric acid reacts sodium hydrogen carbonate

Q.8. Write five chemical formulae and names of compounds by using the ions given below:

Anions: CO_3^{2-} , SO_4^{2-} , Cl^{-1} , Br^{-1} , I^{-1} , OH^{-1} , NO_3^{-1} , $\text{CH}_3\text{COO}^{-}$, HCO_3^{-1}

Cations: K^{+1} , Na^{+1} , Mg^{+2} , Ca^{+2} , Ba^{+2} , Cu^{+2} , Zn^{+2} , Fe^{+2} , Pb^{+2} , Al^{+3} , Fe^{+2} , NH_4^{+1}

Note: Students must revise and practice all the work completed in the class of science along with the above homework.

SUBJECT: SOCIAL SCIENCE

For Class X Section A, B & C students

Task 1: Prepare a project file on the given topic:

“Equality for All: Building a Fair and Inclusive Society”

Part 1: Project Framework & Structure

Based on BSB project work guidelines for Social Science, your report should be handwritten and well-structured. Here is the suggested structure:

1. Cover Page: Title ("Equality for All: Building a Fair and Inclusive Society"), your name, class, subject, and school name.
2. Acknowledgement: Thank your teacher, parents, or anyone who helped you.
3. Index: A table of contents with page numbers.
4. Introduction (1-1.5 pages)
 - Define what a "social issue" is.
 - Introduce your specific topic: Why is equality important? What does a "fair and inclusive society" look like?
 - State the objectives of your project.
5. Main Content (4-6 pages) - See Part 2 for detailed topics
6. Conclusion (1 page)
7. Summarize your main findings. Why is building an equal society important for India's future?
8. Bibliography: List the sources you used (books, websites, etc.).

Part 2: Main Content (Detailed Topics to Cover)

You can structure the main body of your project using these four key pillars:

A. Understanding the Core Concepts

Define the key terms:

- Equality: Giving everyone the same resources and opportunities.

- Equity: Giving people what they need to have fair access (sometimes they need different things to be equal).
- Inclusion: Ensuring everyone feels valued, respected, and has a sense of belonging.
- Social Justice: The concept of fair relations between individuals and society.

B. Major Issues in India (The Problems)

Choose 2-3 issues to focus on for your data collection and analysis:

- Caste-based Discrimination: How it limits access to education, housing, and jobs.
- Gender Inequality: Issues like the pay gap, safety concerns, or access to education for girls.
- Economic Inequality: The gap between the rich and the poor and its effects.
- Disability & Accessibility: Lack of ramps, accessible technology, or inclusive education.

C. Real-world Solutions (The Action Plan)

- Government Schemes: (e.g., Beti Bachao Beti Padhao for girls' education, Reservation policies, RTE Act for free education).
- Legal Framework: The role of the Constitution and the Right to Equality (Article 14-18).
- Role of Citizens: How we can help by challenging stereotypes and reporting unfair behaviour.

D. Global Perspective

Briefly look at a global issue, such as the Refugee Crisis or the Black Lives Matter movement, to show this is a worldwide concern.

Part 3: Creative & Practical Activities (Get Higher Marks!)

To score the 2 marks for "Presentation & Creativity", you must move beyond just writing essays. Choose one or two of these activities:

- **Poster Making Campaign:** Design a poster with a slogan like "Inclusion Starts with Me" or "Equal Rights, Equal Opportunities." Include a photograph of your poster in the file.
- **Role-Play / Skit:** Write a 5-minute script about a scenario (e.g., a student being left out of a game or a person being denied a job). Write a reflection on how it felt to play that character.
- **Survey (Data Collection):** Create a simple questionnaire (10 questions) asking friends/family about their views on equality. Show the results using a bar chart or pie chart in your project.
- **Short Story / Poem:** Write an original 1-page story from the perspective of someone who faces discrimination to show empathy.

Part 4: Research & Data Collection (Viva Voce Preparation)

You need to collect information to prove you did the work. This will help you answer questions during the Viva Voce (2 marks).

- **Primary Sources (Original):** The interview you did, the survey you conducted, or the poster you drew.
- **Secondary Sources (Research):** Use your textbook, NCERT reports, or reputable websites.

Part 5: Marking Scheme (How to Score 5/5)

- Content & Analysis - Use correct data, explain why inequality happens, not just what it is.
- Presentation & Creativity - Add drawings, charts, a poster, or a survey graph. Neat handwriting.
- Viva Voce (Oral) - Speak confidently, know your definitions, explain why you chose this topic.
- **Final Tip: Keep your language simple and clear. Use pictures cut from magazines or printed from the internet to make the file look bright and engaging. Good luck**

For Class X Section B & C students only-

Task 2: WORKSHEET

INSTRUCTIONS

1. Write the answers of these questions in your notebook.
2. Revise and practice all the work completed till summer break.

Q1. Imagine a painting showing Marianne (female allegory of France) trampling a crown and breaking feudal chains, standing next to Germania holding a black-red-gold flag.

Question: How does this painting convey the ideas of nationalism, republicanism, and unification in one image? Identify two symbols.

Q2. Events: Rowlatt Act (1919), Non-Cooperation Movement (1920-22), Simon Commission (1928), Civil Disobedience Movement (1930-34), Quit India Movement (1942).

Question: Why did the National Movement shift from "constitutional demands" to "complete independence" (Purna Swaraj) in 1929? Connect at least two prior events.

Q3. Brussels has 80% French-speaking and 20% Dutch-speaking people. The government has equal representation for both groups even though French speakers are more. Why is this arrangement more democratic than majority rule? Apply the logic of power-sharing.

- Q4.** A river flows through State X and State Y. State X builds a dam reducing water to State Y. The matter goes to the Supreme Court. Under which feature of federalism do courts solve such disputes? Why can't the central government force a solution unilaterally?
- Q5.** Country A has a higher per capita income than Country B, but Country B has better literacy rate, lower infant mortality, and higher life expectancy. Which country would be considered more developed according to UNDP's criteria? Justify using two indicators beyond income
- Q6.** Ramesh's village has a government primary school with no drinking water but a private school with good facilities. Many poor children still attend the government school. Suggest two non-income measures that should improve to make education truly "developed" for all.
- Q7.** In India, the primary sector contributes ~18% to GDP but employs ~42% of workers, while the tertiary sector contributes ~54% to GDP but employs ~31% of workers. What economic problem does this indicate? Suggest one reason and one solution.
- Q8.** A village in Rajasthan has adopted rooftop rainwater harvesting + biogas from cattle dung, reducing dependence on groundwater and LPG. How does this follow the three R's (Reduce, Reuse, Recycle)? Give one example of each from this case.
- Q9.** The Western Ghats have rich biodiversity and iron ore, but also severe landslides due to mining. Classify iron ore (by origin and exhaustibility) and suggest a trade-off between development and conservation in one sentence.
- Q10.** Region X has 40% of India's coal reserves but no industries; Region Y has no coal but many thermal power plants relying on imports. Analyse why resource planning failed here. Suggest one step for balanced development.

SUBJECT: ICT

1. Task 1: Practical File Assignment (For Section A, B & C students)

Prepare a hand written practical file (hard bound practical book) using Libre office Writer, Calc and Base with 5 assignments each using their tools like: Mail merge, Templates, watermark, columns and hyperlink in Writer. Choose any 5 tools in excel (i. e. Goal seek, consolidating data, subtotal, scenario manager, data table etc.) and in Base (Reports, Forms, table creation using wizard etc).

- Students must revise and practice all the work completed in the class of IT along with the above homework.

2. Task 2: (For Section B & C Students Only)

Write an article of “Equality for All: Building a Fair and Inclusive Society” and type the same in Libre office Writer, use different Styles, templates, Fonts, Background and watermark to beautify the text. Take the printout on A4 sheets and keep in a folder to submit.