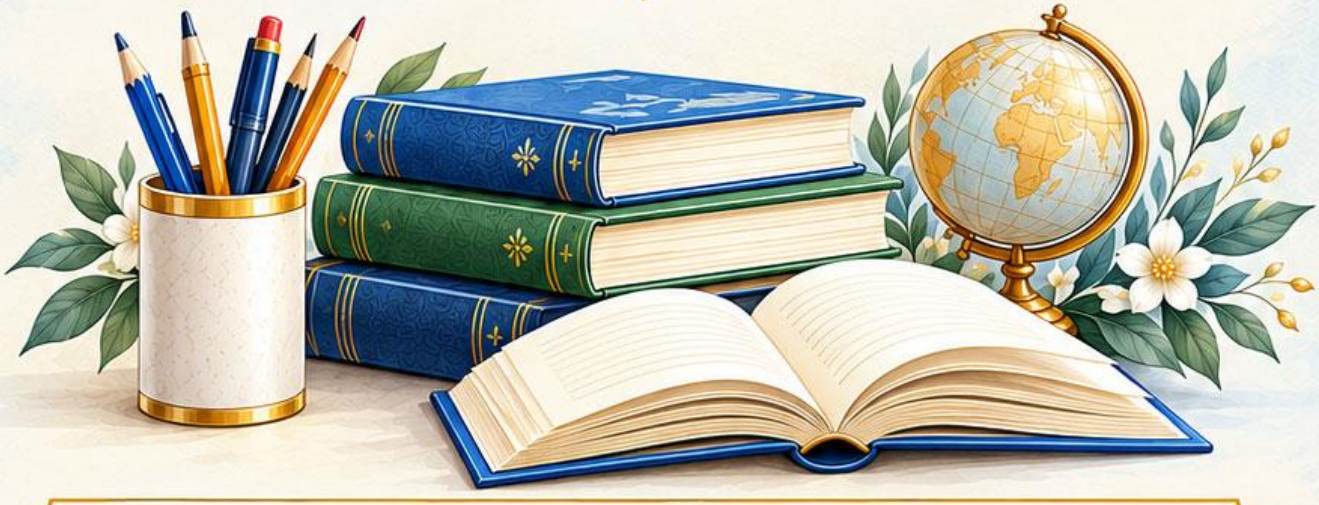
BISHOP SCOTT BOYS' SCHOOL

Sarvada Sarva shreshth
HOLISTIC DEVELOPMENT

PUJA VACATION HOMEWORK



Class: 10

Academic Session: 2026 - 27

Date of Submission: 17-11-2026

Teacher's Note

Dear Parents,

Teachers and parents both play an equally important role in shaping a child's learning journey. At school, teachers guide, support, and nurture students by helping them understand concepts and develop essential skills. At home, parents observe, encourage, and reinforce these learnings, creating a balanced environment for growth. This strong partnership between school and home ensures that students feel supported, confident, and motivated in all aspects of their education.

Keeping this in mind, holiday homework has been thoughtfully designed to help students remain connected with their studies during the puja vacations. It provides an opportunity for children to revise what they have learned, apply their knowledge in practical ways, and reflect on their understanding. Through these activities, students can explore their creativity, strengthen their skills, and become more independent learners. With your continued support and encouragement, we hope this vacation will be both enjoyable and enriching for your child.





BISHOP SCOTT BOYS' SCHOOL

GRADE: X ENGLISH L.L. (184) / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. **Prepare an art-integrated project of 6–8 pages on any one of the following topics.**

   i. **Unity in Diversity:** The cultural richness of India, with special reference to Sikkim.
   ii. **Freedom and Equality:** The contribution of great leaders to India's democratic values.
   iii. **Environmental Conservation:** Lessons from *The Trees* and the importance of protecting nature.
   iv. **The Power of Kindness:** How compassion can transform human relationships.

   Your project must include:
   - Cover page
   - Acknowledgement
   - Index
   - Introduction
   - Main content with relevant examples and illustrations
   - Conclusion
   - Bibliography

2. **Write a sketch of each of the following chapters, along with a separate character sketch of its protagonist. (Limit: 200 words each)**
   i. A Letter to God
   ii. Nelson Mandela: Long Walk to Freedom
   iii. Madam Rides the Bus
   iv. The Thief's Story
   v. The Midnight Visitor
   vi. A Question of Trust
   vii. Footprints Without Feet

3. **Pull-out Worksheets**
   Worksheets: 60-62 (Edition)
   Worksheets: 63-65 (Omission)
   Worksheets: 66-68 (Reported Speech)

Remember: Holidays are an opportunity to learn, explore, read, and grow. Complete your work honestly and use your creativity to make it meaningful. The work is to be submitted in a practical file. (Don't use any plastic file.)

BISHOP SCOTT BOYS' SCHOOL

GRADE: X / HINDI / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. एक कहानी यह भी, उत्साह (क्षितिज) , मैं क्यों लिखता हूँ (कृतिका) पाठों से कठिन शब्दों का चयन कर याद करें तथा उत्तर पुस्तिका में लिखें।
2. कवि नागार्जुन का जीवन परिचय A4 सीट पर तैयार करें।
3. 'संगतकार' पाठ में से दस वस्तूनिष्ठ प्रश्नोत्तर करें।
4. 'रक्तदान महादान' पर एक आकर्षक विज्ञापन तैयार करें।

Activity 1

Draw the graph of a quadratic polynomial and observe:

(i) The shape of the curve when the coefficient of x^2 is positive.
(ii) The shape of the curve when the coefficient of x^2 is negative.
(iii) Its number of zeroes.

Activity 2

Verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
(Take a pair of linear equations in two variables of the form $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$, where a_1 , b_1 , a_2 , b_2 , c_1 and c_2 are all real numbers;

Activity 3

To find the height of a building using a clinometer.

Activity 4

To find the sum of first 'n' natural numbers.

Activity5

To verify Basic Proportionality Theorem (Thales theorem).

Solve these questions :

1. If $\sin A + \sin^2 A = 1$, then the value of the expression $(\cos^2 A + \cos^4 A)$ is?
2. Prove that $\sin^6 \theta + \cos^6 \theta + 3\sin^2 \theta \cos^2 \theta = 1$
3. If $\sin \theta + \cos \theta = \sqrt{3}$, then prove that $\tan \theta + \cot \theta = 1$
4. If $\sqrt{3} \tan \theta = 1$, then find the value of $\sin^2 \theta - \cos^2 \theta$.
5. Simplify $(1 + \tan^2\theta)(1 - \sin\theta)(1 + \sin\theta)$
6. If $2\sin^2 \theta - \cos^2 \theta = 2$, then find the value of θ.
7. Show that $\tan^4 \theta + \tan^2 \theta = \sec^4 \theta - \sec^2 \theta$.
8. Prove that $(\sin \alpha + \cos \alpha)(\tan \alpha + \cot \alpha) = \sec \alpha + \operatorname{cosec} \alpha$
9. The angle of elevation of the top of a tower from certain point is 30°. If the observer moves 20 metres towards the tower, the angle of elevation of the top increases by 15°. Find the height of the tower.
10. The angle of elevation of the top of a tower from two points at distant 's' and 't' m from its foot are complementary. Prove that the height of the tower is $\sqrt{st}$.
11. From a point P which is at a distance of 13 cm from the centre O of a circle of radius 5 cm, the pair of tangents PQ and PR to the circle are drawn. Then the area of the quadrilateral PQOR is?
12. AT is a tangent to the circle with centre O such that OT = 4 cm and ∠OTA = 30°. Then AT is equal to?
13. Out of the two concentric circles, the radius of the outer circle is 5 cm and the chord AC of length 8 cm is a tangent to the inner circle. Find the radius of the inner circle.
14. Two tangents PQ and PR are drawn from an external point to a circle with centre O. Prove that QORP is a cyclic quadrilateral.
15. If from an external point B of a circle with centre O, two tangents BC and BD are drawn such that ∠DBC = 120°, prove that BC + BD = BO i.e. BO = 2BC.

16. Two APs have the same common difference. The first term of one AP is 2 and that of the other is 7. The difference between their 10th terms is the same as the difference between their 21st terms, which is the same as the difference between any two corresponding terms. Why?
17. The sum of the first three terms of an AP is 33. If the product of the first and the third term exceeds the second term by 29, find the AP.
18. The sum of the 5th and the 7th terms of an AP is 52 and the 10th term is 46. Find the AP.
19. Solve the equation : 1 + 4 + 7 + 10 +.....+ x =287
20. Yasmeen saves Rs 32 during the first month, Rs 36 in the second month and Rs 40 in the third month. If she continues to save in this manner, in how many months will she save Rs 2000?
21. A medicine capsule is in the shape of a cylinder with two hemispheres stuck to each of its ends. The length of the entire capsule is 14 mm and the diameter of the capsule is 5 mm. Find its surface area.
22. On the top face of the wooden cube of side 7 cm, hemispherical depressions of radius 0.35 cm are to be formed by taking out the wood. The maximum number of depressions that can be formed is ?
23. A well of diameter 3 m is dug 14 m deep. The earth taken out of it has been spread evenly all around it in the shape of a circular ring of width 4 m to form an embankment. Find the height of the embankment.
24. A cylindrical tub, whose diameter is 12 cm and height 15 cm is full of ice cream. The whole ice-cream is to be divided among 10 children in equal ice-cream cones , with conical base surmounted by hemispherical top. If the height of conical portion is twice the diameter of base, find the diameter of conical part of ice cream cone.
25. The length of the minute hand of a clock is 6 cm. Find the area swept by it when it moves from 7:05 pm to 7:40 pm .
26. The perimeter of a certain sector of a circle of radius 5.6 m is 20 m. Find the area of the sector.
27. Find the area of the square that can be inscribed in a circle of radius ‘r’ units is ?
28. A car has wheels which are 80 cm in diameter . How many complete revolutions does each wheel make in 10 minutes , when the car is travelling at a speed of 66 km an hour?
29. Two circles touch internally. The sum of their areas is 116 π cm^2 and the distance between their centres is 6 cm. Find the radii of the circles.
30. Four cows are tethered at the four corners of a square field of side 50 m such that each can graze the maximum unshared area. What area will be left ungrazed? (Take π = 3.14)

CHEMISTRY

1) Define oxidation. Identify and name the substance oxidised in the following reaction:

$CuO + H_2 \rightarrow Cu + H_2O$

2) How is zinc extracted from its ore? Name the processes involved in the extraction and write chemical equations for the reactions that occur during these processes.

3) Why do we balance a chemical equation? Name and state the law that suggests the balancing of a chemical equation? Balance the following chemical equation:

$Zn + H_3PO_4 \rightarrow Zn_3(PO_4)_2 + H_2$

4) Define a precipitation reaction. Give its example and also express the reaction that occurs in the form of a balanced chemical equation.

5) A carbon compound 'A' is widely used as a preservative in pickles and has a molecular formula $C_2H_4O_2$. This compound reacts with ethanol to form a sweet-smelling compound 'B'.
   (i) Identify the compound 'A' and write its structure.
   (ii) Write the chemical equation for the reaction of 'A' with ethanol to form compound 'B'. State the role of presence of an acid in the reaction.
   (iii) How can we get compound 'A' back from 'B'?
   (iv) How can 'A' be obtained from ethanol?
   (v) Name the gas produced when compound 'A' reacts with washing soda.

6) A carbon compound 'A' on heating with excess conc. H_2SO_4 forms a compound 'B', which on addition of one mole of hydrogen gas in the presence of nickel catalyst forms a compound 'C'. 'C' on combustion in air forms 2 moles of carbon dioxide and 3 moles of water. Identify 'A', 'B' and 'C' and write their structures. Give chemical equations of the reactions involved. Also state the role of concentrated sulphuric acid in the formation of 'B' from 'A'.

7) Common salt is a very important chemical compound for our daily life. It's chemical name is sodium chloride and it is used as a raw material in the manufacture of caustic soda, washing soda, baking soda, etc. It is also used in the preservation of pickles, butter, meat, etc.
   (i) Name the acid and the base from which common salt can be obtained.
   (ii) State the nature (acidic/basic/neutral) of sodium chloride. Give reason for the justification for your answer
   (iii) What happens when electric current is passed through an aqueous solution of sodium chloride (called brine)? Name the products obtained along with the corresponding places in the electrolytic cell where each of these products is obtained.
   (iv) How is washing soda obtained from sodium chloride? Give chemical equation of the reactions involved in the process.

8) What are structural isomers? Draw structural isomers of butane (C_4H_{10}). Give reason why propane has no structural isomers?

9) What happens when butane is burnt in air? Write chemical equation for the reaction. Differentiate between the flames obtained when butane and butyne both are burnt in air in the similar conditions

10) Give reason why carbon can neither form C^{4+} cations nor C^{4-} anions but forms covalent compounds.

PHYSICS

1. What is meant by saying that the potential difference between two points is 1 Volt?
2. Judge the equivalent resistance when the following are connected in parallel :
   (i) 1 Ω and 106 Ω,
   (ii) 1 Ω and 103 Ω and 106 Ω.
3. An electric lamp of 100 Ω, a toaster of resistance 50 Ω, and a water filter of resistance 500 Ω are connected in parallel to a 220 V source. What is the resistance of an electric iron connected to the same source that takes as much current as all three appliances, and what is the current through it ?
4. What are the advantages of connecting electrical devices in parallel with the battery instead of connecting them in series ?
5. How can three resistors of resistances 2Ω, 3 Ω, and 6Ω be connected to give a total resistance of (i) 4 Ω, (ii) 1 Ω ?
6. Why does the cord of an electric heater not glow while the heating element does ?
7. How many 176 Ω resistors (in parallel) are required to carry 5 A on a 220 V line? 8. Several electric bulbs designed to be used on a 220 V electric supply line, are rated 10 W. How many lamps can be connected in parallel with each other across the two wires of 220 V line if the maximum allowable current is 5 A ?
9. Two lamps, one rated 100 W at 220 V, and the other 60 W at 220 V, are connected in parallel to electric mains supply. What current is drawn from the line if the supply voltage is 220 V ?
10. Compare the power used in the 2 Ω resistor in each of the following circuits.
    (i) a 6 V battery in series with 1 Ω and 2 Ω resistors, and
    (ii) a 4 V battery in parallel with 12 Ω and 2 Ω resistors
11. Which uses more energy, a 250 W TV set in 1 hr, or a 1200 W toaster in 10 minutes?
12. Explain the following.
    (a) Why is the tungsten used almost exclusively for filament of electric lamps?
    (b) Why are the conductors of electric heating devices, such as bread-toasters and electric irons, made of an alloy rather than a pure metal?
    (c) Why is the series arrangement not used for domestic circuits?
    (d) How does the resistance of a wire vary with its area of cross-section?
    (e) Why are copper and aluminum wires usually employed for electricity transmission?
13. How does use of a fuse wire protect electrical appliances?
14. What is electrical resistivity? In a series electrical circuit comprising a resistor made up of a metallic wire, the ammeter reads 5 A. The reading of the ammeter decreases to half when the length of the wire is doubled. Why?
15. A current of 1 ampere flows in a series circuit containing an electric lamp and a conductor of 5 Ω when connected to a 10 V battery. Calculate the resistance of the electric lamp. Now if a resistance of 10 Ω is connected in parallel with this series combination, what change (if any) in current flowing through 5 Ω conductor and potential difference across the lamp will take place? Give reason.
16. Write the following Experiments in your practical notebook
    I) Studying the dependence of potential difference (V) across a resistor on the current (I)

passing through it and determine its resistance. Also plotting a graph between V and I.

II) Determination of the equivalent resistance of two resistors when connected in series and parallel.

BIOLOGY

Do the following questions:

1. A plant with genotype RrYy produces four types of gametes.
   a) Name the four gametes.
   b) Explain why the gametes carry only one allele for each gene.
   c) Which Mendelian law explains the independent inheritance of the two traits?
2. In a cross between RrYy and RrYy, calculate the probability of obtaining offspring that are:
   a) Homozygous recessive for both traits
   b) Heterozygous for both traits
   c) Round and green
   d) Wrinkled and yellow
3. In pea plants, tallness (T) is dominant over dwarfness (t), and violet flowers (V) are dominant over white flowers (v).
   A plant with genotype TtVv is crossed with a dwarf plant having white flowers (ttvv).
   Draw the cross using a Punnett square.
   Determine the genotypic ratio.
   Determine the phenotypic ratio.
   What percentage of the offspring will be tall with violet flowers?
4. A farmer crosses a pure-breeding tall plant with violet flowers and a pure-breeding dwarf plant with white flowers. The F_1 plants are then crossed with dwarf, white-flowered plants.
   a) Write the genotype of the F_1 plants.
   b) Identify the type of second cross.
   c) What phenotypic ratio is expected in the offspring of the second cross?

Write down the following practical in your practical notebook:

1. To prepare temporary Mount of a leaf to show stomata.
2. To show that carbon dioxide is given out during respiration.
3. To study (i) Binary fission in amoeba (ii) Budding in Yeast and Hydra with the help of permanent slides.
4. To identify different parts of an embryo of a dicot seed (using gram).

BISHOP SCOTT BOYS' SCHOOL

GRADE: X / SOCIAL SCIENCE / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

HISTORY

1. What was the significance of Lahore Congress?
2. Discuss the stages of Italian unification.
3. Discuss the contribution of Napoleon in the unification of Europe.
4. Elucidate on the Balkan issue.
5. Discuss the strange case of Britain.

CIVICS

1. Why has economic development alone proven insufficient to completely eradicate caste-based inequalities in contemporary India?
2. Why is the absence of internal democracy within political parties considered as a severe challenge to democratic governance as a whole?
3. Why did India adopt the multiparty system? Explain with suitable arguments.
4. 'The Constitution declared India as a Union of States. Although it did not use the word federation, the Indian Union is based on the principles of federalism.' What makes India a federal country?
5. What is the main difference between a federal form of government and a unitary one? Explain with an example.

GEOGRAPHY

1. Evaluate the socio-ecological consequences of large dam construction.
2. Climate change is reshaping India's cropping calendar and crop suitability."
3. Critically evaluate the impact of globalization on small Indian farmers.
4. Examine the conflict between industrialization and environmental sustainability.
5. Highlight the role of joint forest management (JFM) in conserving forests and wildlife in India.

SOCIAL SCIENCE PROJECT

Class 10 (2026-27)

1) Cover Page
   - Topic of Project- Consumer Rights
   - Name of student
   - Class and Section
   - School Name
   - Year-2026-27

2) Certificate

3) Acknowledgement

4) Index
   - Introduction
   - Who is a Consumer?
   - Consumer protection and Consumer Problems faced by a Consumer in Market Place.
   - Consumer Movement in India.
   - Consumer Protection Act 1986
   - Consumer Rights
   - Case studies of Smita Nagdev
   - Three tier system
   - Learning to become a well – informed Consumer.
   - Consumer Responsibilities
   - Quality standard of marks
   - Taking the consumer Movement Forward

5) Conclusion

6) Bibliography

BISHOP SCOTT BOYS' SCHOOL

GRADE: X / IT / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

Prepare IT Report File according to the following guidelines:

Structure of the File

The Report file must include:

- **Front Page:** School name, logo, subject name, session, student name, roll number, class, and section.
- **Acknowledgment & Certificate:** Standard signed acknowledgment and teacher certification pages.
- **Index:** Table of contents listing practical number, title, date, and page number.

Core Practical Topics to be Included

1. Digital Documentation — LibreOffice Writer

- **Styles & Formatting:** Create, apply, edit, and use custom styles (paragraph, character, page) via the Styles window (F11).
- **Images & Shapes:** Insert an image, resize, crop, wrap text around it, and group or rotate drawing objects.
- **Templates:** Design and save a custom document template (e.g., a school assignment or formal letter template).
- **Table of Contents (TOC):** Create and update an automatic Table of Contents using heading styles.
- **Track Changes & Comments:** Use Track Changes to record, accept, or reject edits made in a collaborative document.
- **Mail Merge:** Create a main document and a data source to generate multiple personalized letters or labels.

2. Electronic Spreadsheet (Advanced) — LibreOffice Calc

- **Data Consolidation:** Combine data from multiple worksheets or separate files into a master/consolidated sheet (Data > Consolidate).
- **Subtotals:** Sort data and apply multi-level subtotals (Data > Subtotals).
- **What-If Scenarios:** Create and compare different data scenarios (Tools > Scenarios).
- **Goal Seek:** Use Goal Seek to find an input value required to reach a specific target outcome.
- **Linking Worksheets:** Link data across different sheets or external workbooks.
- **Macros:** Record a macro to automate repetitive formatting or calculations and run it.

BISHOP SCOTT BOYS' SCHOOL

GRADE: X / IT / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026)

Prepare a Project File (or Report) on a relational database using LibreOffice Base / OpenOffice Base along with documentation in LibreOffice Writer.

Structure of the File

The Report file must include:

- **Front Page:** School name, logo, subject name, session, student name, roll number, class, and section.
- **Acknowledgment & Certificate:** Standard signed acknowledgment and teacher certification pages.
- **Index:** Table of contents listing practical number, title, date, and page number.

---

1. Project Structure & Components

Your project file must be organized sequentially with the following standard layout:

- Front Page
- Certificate
- Acknowledgement
- Index / Table of Contents
- Introduction & Objectives:
  Overview (e.g., Student Result Management, Employee Management, Inventory Control, or Customer Management etc.).
- Hardware & Software Requirements: Operating system, software version (LibreOffice Writer/Base), and system specifications

2. Practical Database Work (LibreOffice Base)

You must design a mini relational database based on a real-world topic (such as *Student Result Management, Employee Management, Inventory Control, or Customer Management etc.*) containing these core elements:

- **Tables:** Create at least two related tables (e.g., a Department table and a Staff/Employee table) defined with proper **Primary Keys** and **Foreign Keys**.
- **Data Entry:** Insert sample records into your tables either directly or using **Data Entry Forms** built via the Form Wizard.
- **Queries:** Write and execute database queries (using Design View) to filter and retrieve specific data.
- **Reports:** Generate structured summary **Reports** using the Report Wizard to display output data (e.g., department-wise staff lists or marks summaries).

3. Case Study Documentation (LibreOffice Writer)

Write a detailed project report or case study documentation using **LibreOffice Writer** (avoiding MS Word) incorporating proper document styles, tables, and images as per CBSE guidelines.

- Add a section on **Limitations** of your database/system and **Future Scope / Enhancements**.
- Include a **Bibliography** listing your reference sources.

BISHOP SCOTT BOYS' SCHOOL

GRADE: X / SANSKRIT / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. कुशलवयोः वंशस्य कर्ता कः ?

2. सूक्तयः पाठस्य श्लोकान् स्मरणं कृत्वा अर्थं लिखत।

3. साम्प्रतं विश्वस्य महती समस्या का अस्ति ?

4. जनः केन स्वावलम्बी भवति ?

5. बहुशुद्धिकरणम् कुत्र करणीयम् ?

6. बुद्धिमती पुत्रद्वयोपेता कुत्र गच्छति ?

7. गहनकानने बुद्धिमती कं ददर्श ?

8. न्यायाधीशः कस्मै कारादंडम् आदिष्टवान् ?

9. वस्तुतः चौरः कः आसीत् ?

10. स्वर सन्धेः, व्यंजन सन्धेः सन्धिः / विच्छेदं समासाः / विग्रहाः च **5 - 5** प्रतिदिनं लिखत। च कुरूत।

11. समयः, अशुद्धि शोधनम्, वाच्य, संस्कृतभाषायाम् अनुवादं च **5 - 5** प्रतिदिनं लिखत।

13. **3 - 3** चित्रवर्णनं, पत्रलेखनम्, अपठित अवबोधनम् संस्कृत व्याकरणे लिखत।

14. क्त, क्तवतु , तव्यत् , अनीयर् , त्व, तल् , ठक् , मतुप् , टाप् , ङीप् प्रत्ययानां **5 - 5** उदाहरणानि स्मरणं कृत्वा लिखत।

15. अधोलिखितानाम् विषयानाम् आधृत्य **5** वाक्यानि अनुच्छेदं लिखत -

i) दीपावलिः **ii)** आदर्शः छात्रः **iii)** उद्यानम् **iv)** मम प्राचार्यः

16. ए-4 साइज पेपर में प्रातःकाल के समय का चित्र बनाकर संस्कृत भाषा में इसके महत्त्व को लिखें।

नोटः गृहकार्य पुस्तिका में अवकाश कार्य प्रश्न संख्या 15 तक बनाएँ और प्रश्न 16 पोर्टफोलियो फाइल में देना अनिवार्य है।

