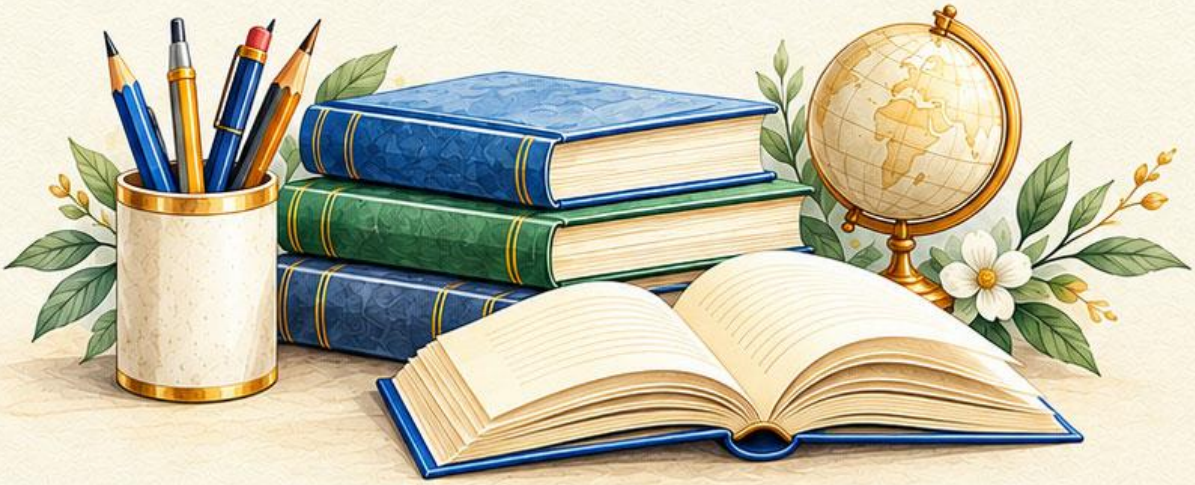
BISHOP SCOTT BOYS' SCHOOL

Sarvada Sarva shreshth
HOLISTIC DEVELOPMENT

PUJA VACATION HOMEWORK



Class: 11

Academic Session: 2026-27

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: XI /ENGLISH/ DIWALI AND CHHATH HOLIDAY

HOMEWORK (2026-27)

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1. **Prepare a literary project of approximately 6–8 pages on any one of the following topics:**
   a) The Importance of Moral Values in Modern Society with reference to the chapter 'The Portrait of a Lady'
   b) War, Displacement, and the Loss of Human Identity with reference to the chapter 'The Address'
   c) The Role of Family in Shaping an Individual's Personality with reference to the chapter 'The Mother's Day'

   Your project should include:
   - Cover page
   - Acknowledgement
   - Index
   - Introduction
   - Main discussion with relevant examples
   - Conclusion
   - Bibliography

2. **Read any one English novel or biography suitable for your age group. Write a book review in 250–300 words covering the title, author, main theme, favourite character or incident, and what you learnt from the book.**

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: XI /MATHS/ DIWALI AND CHHATH HOLIDAY

HOMEWORK (2026-27)

1. Solve the miscellaneous exercise of chapter 9 'straight line' and chapter 10 'conic section' from NCERT book.
2. Activity :

   (I) To verify that the graph of a given inequality, say $5x + 4y - 40 < 0$, of the form $ax + by + c < 0$, $a, b > 0$, $c < 0$ represents only one of the two half planes.

   (II) To construct different types of conic sections.

   (III) To find the number of ways in which three cards can be selected from given five cards.

   (Complete this in maths application note book. These three activities from NCERT lab manual book .)

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI / PHYSICS/ DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. (a) Define coefficient of viscosity and write its SI unit.

   (b) Define terminal velocity and find an expression for the terminal velocity in case of a sphere falling through a viscous liquid.

2. State and prove Bernoulli's theorem.

3. Define shear modulus. With the help of a diagram, explain how shear modulus can be calculated.

4. (a) Define modulus of rigidity.

   (b) A steel cable with a radius of 1.5 cm supports a chairlift at a ski area. If the maximum stress is not to exceed 10^8 N/m^2, what is the maximum load, the cable can support?

5. (a) Which is more elastic, rubber or steel. Give reason.

   (b) What is the density of water at a depth where pressure is 80.0 atm, given that its density at the surface is 1.03×10^3 kg m^{-3}? Compressibility of water is 45.8×10^{-11} Pa^{-1}.

6. Define Poisson's ratio. Write an expression for it. What is the significance of negative sign in this expression?

7. On the basis of stress-strain curves, distinguish between ductile and brittle materials.

8. Define the term strain. Why it has no units and dimensions? What are different types of strain?

9. Define the term stress. Give its units and dimensions. Describe the different types of stress.

10. Stress and pressure are both force per unit area. Then in what respect does stress differ from pressure?

11. What is perfectly elastic body? Give an example in which is close to perfectly elastic.

12. (a) What is elastic potential energy?

    (b) Derive an expression for the elastic potential energy stored in a stretched wire under stress.

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI /CHEMISTRY/ DIWALI AND CHHATH HOLIDAY

HOMEWORK (2026-27)

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1) What is oxidisation number of element underlined:-
   a) $K\underline{Mn}O_4$ b) $K_2\underline{Cr_2}O_7$ c) $\underline{Cr}O_5$ d) $H_2\underline{C_2}O_4$
2) An ideal gas is allowed to expand against a constant pressure of 2 bar from 10 L to 50 L in one step. Calculate the amount of work done by the gas. If the same expansion were carried out reversibly, will the work done be higher or lower than the earlier case? (Given that 1 L bar = 100J)
3) The difference between C_P and C_V can be derived using the empirical relation H = U + PV. Calculate the difference between C_P and C_V for 10 moles of an ideal gas.
4) Expansion of gas in a vacuum is called free expansion. Calculate the work is done and the change in internal energy when 1 litre of an ideal gas expands isothermally into a vacuum until its total volume is 5 litres.
5) Predict the change in internal energy for an isolated system at constant volume.
6) Balance the given reaction. $MnO_4^- + C_2O_4^{2-} + H^+ \rightarrow Mn^{2+} + CO_2 + H_2O$
7) Would you use an oxidizing agent or reducing agent in order for the following reactions to occur?

   $ClO_3^- \rightarrow ClO_2$

   $SO_4^{2-} \rightarrow S^{2-}$

   $Mn^{2+} \rightarrow MnO_2$

   $Zn \rightarrow ZnCl_2$

8) What are the highest and lowest oxidation numbers of N?

9) HNO_3 acts only as an oxidant whereas HNO_2 acts both as an oxidant and reductant. Why?

10) What is disproportionation reaction? Give some examples.

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI /BIOLOGY/ DIWALI AND CHHATH HOLIDAY

HOMEWORK (2026-27)

Do the following questions in your notebook:

1. Differentiate between blood groups A, B, AB and O on the basis of antigens and antibodies.
2. Explain why a person with blood group O has no A or B antigens on their RBCs.
3. What is the difference between Rh-positive and Rh-negative blood?
4. Why is blood grouping necessary before a blood transfusion?
5. Explain the role of multiple alleles and co-dominance in the inheritance of ABO blood groups.
6. Why can an Rh-negative mother carrying an Rh-positive foetus develop complications in a subsequent pregnancy?
7. A patient with blood group B receives incompatible blood containing A antigens.
   a. Which antibodies in the patient's plasma may react with the donor RBCs?
   b. What happens when these antibodies react with the donor RBCs?
   c. Why can an incompatible transfusion be dangerous?
8. Draw the well-labelled diagrams of anatomy of following and compare the two:
   (i) Monocot and dicot root
   (ii) Monocot and dicot stem
   (iii) Monocot and dicot leaf

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI /ACCOUNTANCY/ DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. Which of the following account normally has a debit balance?
   a. Loan. b. Purchases. c. Sales. d. Bank overdraft
2. Outstanding rent is a _____ A/c.
   a. Real. b. Nominal. c. Personal. d. Income
3. Pick the odd one out:
   a. Trial balance is an account.
   b. It can be prepared at any time during the year.
   c. It is prepared to check arithmetical accuracy.
   d. It helps in locating error.
4. Sold goods to Tanu for ₹40000 allowing her a trade discount of 5% and a cash discount of 10%. She paid ¼ of the amount in cash at the time of purchase. Calculate the amount received from Tanu.
   a. ₹9,500 b. ₹3,800 c. ₹ 8,550 d. ₹9,000
5. Calculate the total assets if Capital is ₹ 40,000, Creditors are ₹ 25,000, Revenue ₹ 50,000 and Expenses ₹40,000.
6. Sales book record _____ of goods.
   a. credit sale b. cash sale c. credit purchase d. sales return
7. Out of the following, which is drawings?
   a. Payment of employees wages b. Payment to creditors
   c. Purchase of gift for son's birthday d. Purchases of asset
8. Trial balance is _____
   a. Statement b. Account c. Summary d. Journal proper
9. Name the process of transferring the debit and credit items from a journal to their respective accounts in a ledger
   a. Journalising b. Posting c. Classifying d. Identifying
10. Sold goods costing ₹40,000 at a profit of 25% less 20% trade discount. Calculate the amount debited to cash A/c.
    a. ₹40,000 b. ₹ 50,000 c. ₹45,000 d. ₹ 30,000
11. Pass necessary journal entries for the following transactions:
    a. Vijay started business with cash ₹ 2,50,000
    b. Opened a bank account with cash ₹1,25,000
    c. Sold goods to Sunny list price ₹4,000, trade discount 10% and cash discount 5%.
    d. Purchased Machinery ₹1,00,000 and installation charges ₹2,000.
    e. Goods ₹10,000 and cash ₹5,000 withdrawn by proprietor for personal use.
    f. Paid insurance premium ₹2,500
12. Pass journal entries for the following transactions and prepare necessary Ledger.
    a. Commenced business with cash ₹1,00,000.
    b. Machinery purchased ₹1,75,000 and paid installation expenses ₹25,000
    c. Received cash from Jaya for a bad debt written off last year ₹ 500.

d. Goods worth ₹7,200 were given away as charity.
e. Salary paid to a clerk ₹ 6,000.
f. Interest on drawings ₹900.

13. Prepare purchase book of M/s Ram Singh (New Delhi) assuming CGST and SGST @6% each

1st Jan, 2024 Purchased goods from Vansh Brothers (Kolkata)
10 Philips tube light @ Rs 40 each
50 Crompton bulb @110 each
Trade discount 10%
10th Jan,2024 Purchased goods Mayur electric store (New Delhi)
25 heaters @160 each
15 fans @600 each
16th Jan,2024 Purchased goods from Ganpat electric store
5 dozens Philips bulbs @30 each
20 power plugs@ 25 each
Trade discount @15%
20th Jan, 2024 purchased furniture Rs 10,000 from Ramesh &Co.

14. Prepare a correct trial balance from the following information as on 31st March, 2025.
Cash ₹ 75,000, Furniture Rs 30,000, Salaries ₹ 25,000, Bills payable ₹ 35,000, Purchases ₹2,60,000, Return outward ₹ 5,000, Bills receivable ₹49,000, Sales ₹3,05,000, Return inward ₹ 1,000, Capital ₹ 95,000.

15. State whether the balance of the following accounts should be placed in the debit or credit columns of trial balance.

a. Plant and Machinery	b. Discount allowed	c. Interest paid
d. Sales	e. Bank Overdraft	f. Bad debts

16. On 1st April, 2024 Suresh traders commenced business with cash ₹ 1,00,000. He bought goods and paid by cheque ₹ 24,000. Rent @ 500 per month was due for two months. On 1st May a furniture ₹ 50000 was purchased from Vaibhav. Vaibhav was paid ₹ 47,500 in full settlement of his account. On 25th May goods costing ₹ 2,000 was lost by fire. On 31st May cash ₹ 30,000 was deposited into bank.

(a) Suresh A/c represents _____

i. Real A/c ii. Personal A/c iii. Nominal A/c iv. Assets A/c.

(b) Calculate the amount of outstanding rent.

i. ₹ 4000 ii. ₹ 500 iii. ₹ 1000 iv. ₹2000

(c) For which transaction contra entry will be passed?

(d) Goods ₹ 2000 was lost by fire. Pass journal

(e) Fill in the blanks:

Vaibhav A/c ..... Dr	_____	
To Cash A/c		_____
To _____A/c		2,500

(Payment made to Vaibhav)

17. From the following information, prepare Trial balance:

Machinery	1,00,000
Debtors	54,000
Lighting	15,000
Drawings	20,000
Purchases	2,80,000
Wages	16,000
Bank	22,000
Opening Stock	40,000
Rent	12,400
Sundry expenses	7000
Carriage outward	2,800
Commission (Cr)	5,000
Sales	4,20,000
Discount received	1,500

18. From the following transactions of a concern, prepare the Machinery account for the year ending 31st March 2025.

1st April, 2024- Purchased a second hand machinery for 40,000

1st April, 2024- Spent 10,000 on repairs for making it serviceable.

30th September, 2024- Purchased additional new machinery for 20,000

31st December, 2024- Repairs and renewals of machinery 3,000

19. Pass entries in the books of Roy & Son's of West Bengal assuming CGST and SGST @ 9 % each.

a. Purchased goods ₹1,00,000 from Mr. Pawan of Mumbai.
b. Sold goods to Suresh ₹2,50,000 of West Bengal.
c. Proprietor withdrew ₹10,000 for personal use.

20. Pass entries in the book of Mr. Rakesh of Jharkhand for the following transactions assuming CGST and SGST @ 6 % each and prepare Sales book .

a. Sold goods to Ganesh of Kerala ₹ 50,000.
b. Sold goods ₹20,000 to Anu of Jharkhand.
c. Sold Furniture to Mohan Lal of Bihar ₹3,00,000.
d. Sold typewriter of ₹10,000.

1. Match the following:

Column I	Column II
i. Employees	1. To provide desired quality goods.
ii. Consumers	2. To provide good working condition.
iii. Government	3. To generate more employment opportunities.
iv. Community	4. To respect the law of the land.

2. Which of the following is not the social responsibility of business towards the consumers?
   a. To make available good quality products at reasonable price.
   b. To bring out reality in advertisement
   c. To give a share of profit
   d. To avoid adulteration
3. Suppose Akash is a shareholder in a company holding 200 shares of ₹ 10 each on which he has already paid ₹6 per share. In the event of losses or company's failure to pay debts, Akash is liable to pay:
   a. ₹2,000 b. ₹ 1,200 c. ₹ 800 d. ₹ 3,200
4. A business enterprise should respect the democratic rights to form trade unions, is an example of responsibility towards
   a. Owner b. Consumers c. Government d. Workers
5. Who are the primary risk bearers of the company?
   a. Equity shareholders b. Debenture holders
   c. Preference shareholders d. Creditors
6. Divya Ltd sells goods on credit while Sonam Ltd. sells goods on cash basis. Which company will require more working?
7. Which group of people expects that business enterprises should ensure fair return on investment?
8. Identify and explain the concept which defines the right and wrong behavior in the world of business.
9. Kanuj wants higher and more certain return and also safety of capital. What will he choose amongst the equity shares, preference shares and debentures.
10. Tushar a businessman who supplies cheap quality of products at higher prices to Consumers. Is he showing socially desirable behaviour?
11. Mention two preferential rights which preference shareholders enjoy over equity shareholders.
12. Differentiate between equity shares and preference shares.
13. Explain social responsibilities of business towards various interested groups.
14. ABC Ltd is not having good liquidity position. It has invested in long term investment projects and will get smooth cash flow after five years. It is not in a position to bear risk of fixed burden of paying interest.
    a. Suggest a source of owners fund available in above case.
    b. State various merits and demerits of this source.
15. Nakul is running a business of manufacturing investors in Delhi. He has received an order for supply of 20 investors from Better electronics in Jaipur. As the amount of payment is more than ₹2 lakes, better electronics decided to transfer the funds electronically from their bank account.
    a. Which service of bank has been referred here?
    b. Differentiate between NEFT and RTGS.

1. Solve all multiples choice questions from the following chapters:
   i) Limits and Continuity
   ii) Differentiation
   iii) Probability

Project work:-

2. Write all the formula related to the above chapters in a chart paper.

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BISHOP SCOTT BOYS' SCHOOL

GRADE: XI /HISTORY/ DIWALI AND CHHATH HOLIDAY

HOMEWORK (2026-27)

DO THE FOLLOWING PROJECT:

Ancient History In Depth : MESOPOTAMIA

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI / GEOGRAPHY / DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. What is the Nebular Hypothesis proposed by Laplace and Kant regarding the origin of the universe and the earth?
2. Explain why earthquake shadow zones are crucial for mapping the earth's internal layers (mantle and core).
3. How does the concept of Sea Floor Spreading bridge the gap between continental drift and modern plate tectonics?
4. How does running water act as both an erosional and a depositional agent?
5. How does the process of pressure release drive physical weathering in massive igneous intrusive bodies like batholiths?
6. Describe the process of chemical weathering through carbonation and oxidation, giving one real-world geological effect for each.
7. What is the greenhouse effect? Explain how human actions are altering the natural thermal balance of the atmosphere.
8. Explain the general circulation of the atmosphere with reference to the Hadley, Ferrel, and Polar cells. How do pressure belts influence global wind patterns?
9. Why do tropical cyclones not form at the equator, even though equatorial sea surface temperatures are warm?
10. Explain the difference between primary (P) waves and secondary (S) waves generated during an earthquake. How do their shadow zones differ?

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI /ECONOMICS/ DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

Class 11 Economics project topic: 2026-27 (any one)

1. Bumper production – born or bane for the farmer

2. Effect of price change on a substitute goods

BISHOP SCOTT BOYS' SCHOOL

GRADE: XI / POLITICAL SCIENCE/ DIWALI AND CHHATH HOLIDAY HOMEWORK (2026-27)

1. Why is an Independent Judiciary essential in a constitutional democracy?
2. State the criteria for recognising a political party as a National party by the Election Commission of India.
3. What is an Anti-Defection Law, and which Constitutional Amendment introduced it?
4. Differentiate between an Ordinary Bill and a Money Bill.
5. "**The Lok Sabha is much more powerful than the Rajya Sabha.**" Critically analyze this statement by comparing the powers and functions of both Houses.
6. Distinguish between the Original Jurisdiction and Appellate Jurisdiction of the Supreme Court of India with suitable examples.
7. Compare the Writ Jurisdiction of the Supreme Court under Article 32 with that of the High Court under Article 226.
8. Explain the evolution of the Collegium System for the appointment of judges in India.
9. What is Public Interest Litigation (PIL)? Name one case or scenario where PIL played a significant role.
10. What is the role of the Governor in state administration, and why is this position often a point of conflict in Indian federalism?

A. Execute the following programs, write code in Practical Record Notebook, get screenshots of outputs and paste beside/beneath the code. Submit the Practical Record when school reopens after puja holidays.

Write program in Python

1. To accept two numbers from the user, find the sum and print the result.
2. To accept length and breadth of rectangle calculate area on perimeter and display the result.
3. To accept a positive integer and decide whether it is even or odd.
4. To accept an integer and decide whether it is positive negative or zero.
5. To accept a positive integer and find, sum of digits of the number and display the sum.
6. To accept a positive number, find the reverse of the number and display original number and the reversed number.
7. To find area of rectangle through user defined function.
8. To create any list and apply different list functions and methods.
9. To create a dictionary and apply different dictionary functions and methods.
10. Write a program to read a list of n integers (positive as well as negative). Create two new lists, one having all positive numbers and the other having all negative numbers from the given list. Print all three lists.

B. Answer the following questions:

1. What are jump statements in Python? Write code and corresponding output to explain the use of jump statements.
2. What are different parts of a looping construct? Illustrate with an example.
3. What is an infinite loop? Write code using four loop and while loop to illustrate an infinite loop.