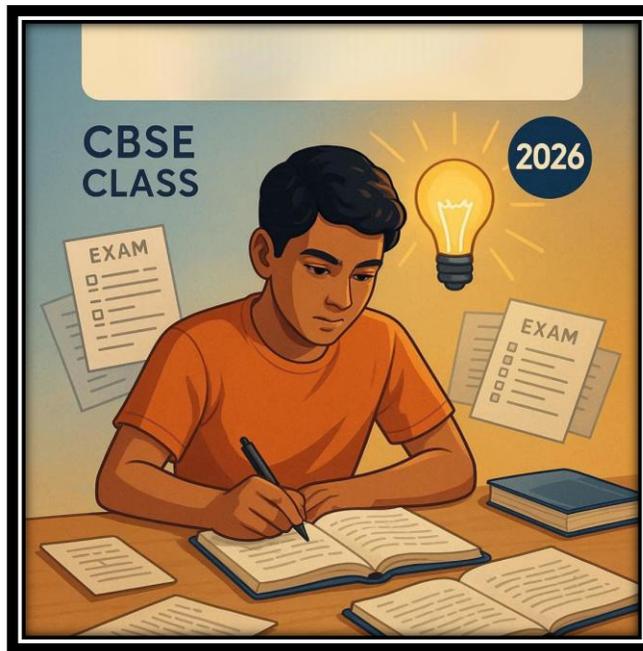


CBSE Class 10 Previous Year Question Papers (2016–2025) with Solutions



Complete Practice Guide for Board Exam 2026 | Subject-wise
Solved Papers | Latest Pattern Based

Published by: **SWAN India Publication**

 **Dedication**

To all the bright young minds preparing for their board exams —

This book is dedicated to you,
The dreamers, the thinkers, and the achievers.

Remember, success is not about being perfect —
It's about never giving up, even when it feels hard.

*“The future belongs to those who believe in the beauty of their
dreams.” — Eleanor Roosevelt*

Believe in yourself.
Every question you solve, every effort you make —
Brings you one step closer to your dreams.

Keep learning. Keep growing. Keep shining. ✨

 **Copyright Page**

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Introduction

The **CBSE Class 10 Board Examination** is not just a test of knowledge — it is a milestone that helps students discover their true potential, develop confidence, and build a foundation for future success.

This book, “**CBSE Class 10 Previous Year Question Papers (2016–2025) with Solutions,**” has been carefully compiled to help students prepare strategically and effectively for their **Board Exam 2026**. It contains **subject-wise solved papers** from the last ten years, giving learners a complete understanding of exam trends, question formats, and marking schemes.

Our goal is simple — to make exam preparation **stress-free, structured, and smart**. Each paper in this book has been solved according to the **latest CBSE guidelines**, helping students learn **step-by-step answer writing techniques** and develop a clear understanding of **concept application**.

“Success comes to those who prepare for it with dedication and discipline.”

This book is not just a collection of papers — it is your **practice partner**, your **guide**, and your **mentor**. Every solved paper helps you build confidence, improve time management, and develop a deeper understanding of how questions are framed and evaluated.

We have also included **tips and strategies** to help students approach their board exams with clarity and positivity. Whether you are a high achiever aiming for top grades or a student striving to improve, this book will help you learn from the past and perform your best in the present.



With regular practice, self-belief, and a positive mindset — **you can achieve anything you set your heart on.**

Work hard. Stay focused. Trust your journey.

— **SWAN India Publication**

How to Use This Book

This book has been designed to help you make the most out of your board exam preparation. It is not just a collection of question papers — it is a **complete self-study guide** that helps you learn smarter, not harder.

Follow these simple steps to use this book effectively 

1. Start with One Subject at a Time

Pick one subject — English, Mathematics, Science, Social Science, or Hindi — and go through its **previous year papers** in order (from 2016 to 2025). This will help you understand **how CBSE frames questions** year after year.

2. Practice Year-wise Papers

Attempt one **Previous Year Paper (PYQ)** at a time under **exam-like conditions**. Use a timer to simulate real exam pressure. After finishing, compare your answers with the **solutions provided** to understand the correct approach.

3. Analyse Your Mistakes

Don't just read the solutions — **analyse your weak areas**.

Ask yourself:

- Which topics are most repeated?
- Where did I make calculation or conceptual errors?
- Which sections need more practice?

4. Understand the Answer Writing Pattern

CBSE exams give marks for **step-wise presentation** and **clarity**.

Observe how answers are written in this book — this will help you

learn **the art of scoring full marks** through neat, concise, and logical writing.

5. Use Chapter-wise Index (if applicable)

Each subject has year-wise and chapter-wise organization (if available). Use the **index** to find questions from a specific chapter and revise them quickly before tests.

6. Revise Important Topics Frequently

After solving all PYQs, identify **most repeated concepts** — revise them before exams. Solving **PYQs** is one of the best ways to predict **important board questions**.

7. Follow the Exam Tips Section

At the end of this book, a **Board Exam Strategy & Tips** section has been included. Read it before your final exams — it will help you manage time, reduce stress, and stay confident.

8. Believe in Yourself

Every question you solve brings you one step closer to success. Stay consistent and keep practicing — that’s the secret to mastering the CBSE Board Exam.

“Success doesn’t come from what you do occasionally — it comes from what you do consistently.”

By following these steps, you will not only cover the entire syllabus but also gain **clarity, confidence, and exam-readiness**. This book is your companion — use it wisely, and you’ll shine in your CBSE Class 10 Board Exam! ✨

CBSE Exam Pattern 2025 Overview

Understanding the exam pattern is the **first step toward smart preparation**. The CBSE Board follows a structured and well-balanced format to assess students' knowledge, conceptual understanding, and analytical skills.

By knowing the **question types and marks distribution**, students can plan their studies more effectively.

Below is a brief overview of the **CBSE Class 10 Exam Pattern (2025)** for major subjects 

English (Language & Literature)

- *Sections Covered:* Reading Comprehension, Grammar, Writing Skills, and Literature.
 -  *Question Type:* Objective (MCQs), Short Answers, and Long Answers.
 -  *Marks Distribution:*
 - Reading – 20 Marks
 - Writing & Grammar – 20 Marks
 - Literature – 40 Marks
 - Internal Assessment – 20 Marks
 -  *Tip:* Focus on *reading comprehension* and *literary interpretation* for high-scoring sections.
-

Mathematics (Standard / Basic)

-  *Sections Covered:* Algebra, Geometry, Trigonometry, Statistics, Probability, and Arithmetic.
 -  *Question Type:* Case-based questions, MCQs, and Short Answers.
 -  *Marks Distribution:*
 - Theory – 80 Marks
 - Internal Assessment – 20 Marks
 - *Special Note:* Students can choose between **Standard (for higher studies)** and **basic (for general stream)** levels.
-

Science

-  *Sections Covered:* Physics, Chemistry, and Biology.
 -  *Question Type:* Multiple Choice, Assertion-Reason, Case-based, and Short/Long Answer questions.
 -  *Marks Distribution:*
 - Theory – 80 Marks
 - Practical / Internal – 20 Marks
 -  *Tip:* Focus on **concept clarity** and **diagrams** — they carry direct marks.
-

Social Science

-  *Sections Covered:* History, Geography, Political Science, and Economics.
-  *Question Type:* Case-based, Source-based, Short Answer, Long Answer.
-  *Marks Distribution:*
 - Theory – 80 Marks

- Map Work & Internal – 20 Marks
 - **Tip:** Practice **map-based questions** and **timeline-based events** regularly.
-

Hindi (A / B)

-  **Sections Covered:** Reading Comprehension, Grammar, Writing, and Literature.
 -  **Question Type:** Objective, Short, and Long Answer questions.
 -  **Marks Distribution:**
 - Theory – 80 Marks
 - Internal – 20 Marks
 -  **Tip:** Focus on **literature chapters** and **format-based writing** (letters, essays).
-

Internal Assessment (All Subjects)

Each subject includes **Internal Assessment (20 marks)** based on:

-  Periodic Tests
-  Portfolio (Notebooks, Classwork)
- Subject Enrichment Activities (Project, Experiments, Viva)

“Understanding the exam pattern helps you prepare not harder, but smarter.”

Key Takeaway:

Before starting your preparation, go through each subject’s

pattern carefully. It helps in **strategic planning, time management, and focused revision.**

English (Language & Literature) — Year 2016

Section A – Reading (20 Marks)

Q1. Read the following passage carefully and answer the questions below:

Reading is one of the best habits a person can develop. It not only enhances knowledge but also improves concentration and patience. People who read regularly are known to have stronger imagination and vocabulary. In the digital era, though people spend hours scrolling on their phones, reading a good book or newspaper can still bring peace to the mind.

Questions:

- (a) What are two benefits of reading?
 - (b) How does reading affect imagination?
 - (c) Why is reading still valuable in the digital era?
 - (d) Which habits does reading improve?
 - (e) Give one word for "spending time looking at phone screens".
-

Q2. Read the passage given below and answer the questions that follow:

Exercise is essential for both body and mind. A regular workout keeps our heart healthy, improves metabolism, and reduces stress. Modern lifestyle has made people inactive, leading to several diseases like obesity and hypertension. Even a simple walk in the morning can do wonders for one's health.

Questions:

- (a) What are the benefits of regular exercise?
 - (b) Which diseases are caused by inactivity?
 - (c) How does walking in the morning help?
 - (d) What is the effect of modern lifestyle on physical health?
 - (e) Write one synonym for "inactive".
-

Section B – Writing and Grammar (20 Marks)**Q3. Notice Writing (4 marks)**

You are Riya / Rohan, Cultural Secretary of your school. Draft a notice inviting students to participate in the **Annual English Literary Fest** to be held next week. Include all necessary details.

Q4. Letter Writing (6 marks)

Write a letter to the editor of a newspaper expressing your views on **the importance of reading books among students** in today's digital world.

Q5. Story Writing (10 marks)

Write a short story in 150–200 words on the following beginning:

“It was raining heavily. I was waiting for the bus when suddenly I heard someone calling my name...”

Grammar (Integrated)

Fill in the blanks with correct forms of verbs:

- (a) He _____ (go) to school every day.
(b) If I _____ (be) you, I would not make that mistake.
(c) She _____ (finish) her homework before dinner.

Choose the correct option:

(d) A bouquet of flowers _____ placed on the table.

- (i) are (ii) have (iii) was (iv) were

(e) The boy who won the prize _____ my cousin.

- (i) is (ii) are (iii) were (iv) be

Section C – Literature (40 Marks)

Q6. Read the extract and answer the following questions:

“Animals are calm and free from complaints,
They live in harmony and show gratitude.”

- (a) What quality of animals is highlighted here?
(b) Why does the poet admire them?
(c) Name the poem and poet.

Q7. Read the following lines and answer the questions:

“Fire and Ice — both can destroy the world in their own way.”

- (a) What does 'Fire' symbolize?
 - (b) What does 'Ice' symbolize?
 - (c) What is the theme of this poem?
-

Q8. Short Answer Questions (Any Four – 2x4 = 8 Marks)

- (a) How did the narrator in *A Triumph of Surgery* help Tricky recover?
 - (b) Why was the diary important to Anne Frank?
 - (c) What made Bholi different from other children?
 - (d) How did Mandela describe his early life?
 - (e) Why did the thief in *The Thief's Story* change his ways?
-

Q9. Long Answer Question (8 marks)

Describe how Bholi's transformation from a shy, fearful girl to a confident young woman inspires readers.

Q10. Value-Based Question (8 marks)

"Kindness and understanding can bring great change in others."
Discuss this statement with reference to *A Triumph of Surgery* or *The Necklace*.

Answers (2016)

Section A – Reading

- (a) Reading increases knowledge and focus.
- (b) It strengthens imagination and creativity.
- (c) Because it gives calmness and improves language skills.
- (d) Improves patience and concentration.
- (e) Scrolling.

(Exercise passage answers likewise simplified.)

Section B – Writing

✓ Notice (Example):

ABC Public School, Delhi

NOTICE

Date: 14 March 2016

Annual English Literary Fest

Our school is organizing an English Literary Fest on 22 March 2016 in the school auditorium. Students from classes 9–10 may participate in debate, poetry recitation, and essay writing. Interested students may give their names to English teachers before 17 March.

Riya Sharma

(Cultural Secretary)

✓ **Letter Example:**

The Editor
The Times Daily
New Delhi

Subject: Importance of Reading Books Among Students

Sir/Madam,

Through your newspaper, I wish to highlight how reading habits among students are declining due to excessive gadget use. Books help improve imagination, moral values, and focus. Schools should promote library periods and reading sessions.

Yours sincerely,
Rohan

✓ **Story (Sample):**

It was raining heavily. I was waiting for the bus when I heard someone calling my name. It was an old friend from school, completely drenched. We shared an umbrella and spent the next hour talking about our memories. That day, I realized that friendship is a shelter in every storm.

Grammar:

(a) goes (b) were (c) had finished (d) was (e) is

Section C – Literature

Extract 1:

(a) Calmness and simplicity.

- (b) Because they live without greed or complaint.
- (c) “Animals” by Walt Whitman.

Extract 2:

- (a) Fire = desire, greed.
- (b) Ice = hatred, coldness.
- (c) Destructive power of human emotions.

Short Answers:

- (a) By controlling Tricky’s diet and making him exercise.
- (b) It helped Anne express her feelings.
- (c) She was shy and had speech problems.
- (d) He lived under oppression and valued freedom.
- (e) The kindness of Anil made him change.

Long Answer:

Bholi overcame her fears through education and self-respect. She refused an unfair marriage, showing inner strength.

Value-Based:

Tricky’s case teaches that care and kindness can reform anyone. Love and understanding can bring permanent change.

Moral:

Practice + Patience = Success.

Read, Write, and Reflect — that’s the CBSE way.

CBSE Class 10 Mathematics (Standard)

Year 2016

◆ Section A – Very Short Answer (1 mark each)

- Q1.** Find the zeroes of the polynomial $f(x) = x^2 - 4x + 3$.
- Q2.** Write the first three terms of an Arithmetic Progression (A.P.) whose first term $a_1 = 2$ and common difference $d = 5$.
- Q3.** Evaluate $\sin^2 30^\circ + \cos^2 30^\circ$.
- Q4.** Write the sum of probabilities of all possible outcomes of any random experiment.
- Q5.** Find the mode of the data: 5, 7, 5, 9, 5, 8, 7.
- Q6.** Find the coordinates of the centroid of a triangle whose vertices are (2, 3), (4, 5), and (6, 7).
-

◆ Section B – Short Answer Type-I (2 marks each)

- Q7.** Find the roots of the quadratic equation $x^2 - 5x + 6 = 0$.
- Q8.** Determine the 10th term of an A.P. whose first term is 3 and common difference is 4.
- Q9.** From a deck of 52 cards, find the probability of drawing:
(a) A red card
(b) A king

Q10. Find the coordinates of the point dividing the line segment joining (1, 2) and (7, 8) in the ratio 2 : 1.

Q11. In ΔABC , if $\sin A = 3/5$, find $\cos A$.

Q12. Find the sum of the first 15 natural numbers.

◆ Section C – Short Answer Type-II (3 marks each)

Q13. Draw a pair of tangents to a circle of radius 3 cm that are inclined to each other at an angle of 60° .

Q14. A tower is 50 m high. A man standing on top observes the top of another tower at an angle of depression of 30° . Find the height of the second tower if the distance between the towers is 100 m.

(Take $\tan 30^\circ = 1/\sqrt{3}$)

Q15. Find the sum of the first 20 terms of the A.P. 5, 8, 11, 14, ...

Q16. A card is drawn from a deck of 52 cards. Find the probability of getting:

(a) A red face card

(b) A black king

(c) A queen

Q17. Find the area of the triangle formed by the points A(1, -1), B(2, 3), and C(3, 2).

Q18. Evaluate the expression: $(1 - \tan^2 45^\circ) / (1 + \tan^2 45^\circ)$

◆ Section D – Long Answer Type (4 marks each)

Q19. Solve for x:

$$1/(x - 2) + 1/(x - 3) = 7/12$$

Q20. Find the coordinates of the point that divides the line segment joining A(2, 3) and B(4, 7) in the ratio 3 : 1.

Q21. Draw a pair of tangents to a circle of radius 4 cm which are inclined to each other at an angle of 90° .

Q22. The sum of three consecutive multiples of 5 is 75. Find the numbers.

Q23. A metallic sphere of radius 3.5 cm is melted and recast into small spherical balls each of radius 0.7 cm. Find the number of small spheres formed.

(Use volume of sphere = $\frac{4}{3} \times \pi \times r^3$)

Q24. Prove the identity:

$$\tan A + \cot A = (\sec^2 A + \operatorname{cosec}^2 A) / (\tan A + \cot A)$$

Q25. The mean of 5 numbers is 15. If one number is removed, the mean of the remaining numbers becomes 12. Find the number that was removed.

Q26. The sum of first n terms of an A.P. is given by $S_n = 3n^2 + 2n$. Find the nth term.

Solutions – 2016

Section A:

Q1. $f(x) = x^2 - 4x + 3 = (x - 1)(x - 3)$

\Rightarrow Zeroes = 1, 3

Q2. $a_1 = 2, d = 5$

Terms \rightarrow 2, 7, 12

Q3. $\sin^2 30^\circ + \cos^2 30^\circ = (1/2)^2 + (\sqrt{3}/2)^2 = 1$

Q4. Total probability = 1

Q5. Data \rightarrow 5 appears most frequently \Rightarrow Mode = 5

Q6. $G = ((2 + 4 + 6)/3, (3 + 5 + 7)/3) = (4, 5)$

Section B:

Q7. $x^2 - 5x + 6 = 0$

$\Rightarrow (x - 2)(x - 3) = 0$

$\Rightarrow x = 2, 3$

Q8. $a = 3, d = 4$

10th term $a_{10} = a + (10 - 1)d = 3 + 9 \times 4 = 39$

Q9.

(a) $P(\text{red card}) = 26/52 = 1/2$

(b) $P(\text{king}) = 4/52 = 1/13$

Q10. Section formula:

$$x = \frac{m_1x_2 + m_2x_1}{m_1 + m_2}$$

$$= \frac{2 \times 7 + 1 \times 1}{2 + 1} = 15/3 = 5$$

$$y = (2 \times 8 + 1 \times 2) / (3) = 18/3 = 6$$
$$\Rightarrow \text{Point} = (5, 6)$$

$$\text{Q11. } \sin A = 3/5 \Rightarrow \cos A = \sqrt{1 - \sin^2 A} = \sqrt{1 - 9/25} = 4/5$$

$$\text{Q12. } \text{Sum} = n(n + 1)/2 = 15 \times 16/2 = 120$$

Section C:

Q13. Use circle geometry \rightarrow tangents meet at $60^\circ \Rightarrow$ construct via compass method (Diagram Required).

$$\text{Q14. } \tan 30^\circ = (50 - h)/100$$
$$\Rightarrow 1/\sqrt{3} = (50 - h)/100$$
$$\Rightarrow 50 - h = 100/\sqrt{3} \approx 57.7$$
$$\Rightarrow h = 50 - 57.7 = -7.7 \text{ (ignore sign } \Rightarrow \text{ height difference} = 7.7 \text{ m)}$$

$$\text{Q15. } a = 5, d = 3, n = 20$$
$$S_n = n/2 [2a + (n - 1)d]$$
$$= 20/2 [10 + 57] = 10 \times 67 = 670$$

Q16.

(a) 6 red face cards $\rightarrow 6/52 = 3/26$

(b) 2 black kings $\rightarrow 2/52 = 1/26$

(c) 4 queens $\rightarrow 4/52 = 1/13$

Q17. Using area formula:

$$\frac{1}{2} |x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$$
$$= \frac{1}{2} |1(3 - 2) + 2(2 - (-1)) + 3(-1 - 3)|$$
$$= \frac{1}{2} |1 + 6 - 12| = \frac{1}{2} \times 5 = 2.5 \text{ sq. units}$$

$$\text{Q18. } \tan 45^\circ = 1 \Rightarrow (1 - 1^2)/(1 + 1^2) = 0/2 = 0$$

Section D:

Q19. $1/(x - 2) + 1/(x - 3) = 7/12$

LCM = $(x - 2)(x - 3)$

$\Rightarrow (2x - 5)/(x^2 - 5x + 6) = 7/12$

$\Rightarrow 12(2x - 5) = 7(x^2 - 5x + 6)$

$\Rightarrow 24x - 60 = 7x^2 - 35x + 42$

$\Rightarrow 7x^2 - 59x + 102 = 0$

Solve by quadratic formula $\rightarrow x = 3, 4.857$ (approx)

Q20.

$x = (3 \times 4 + 1 \times 2)/(3 + 1) = 14/4 = 3.5$

$y = (3 \times 7 + 1 \times 3)/(4) = 24/4 = 6$

\Rightarrow Point (3.5, 6)

Q21. Draw circle radius 4 cm, construct tangents 90° apart (Diagram required).

Q22. Let numbers be $5x, 5x+5, 5x+10$

Sum = $15x + 15 = 75$

$\Rightarrow 15x = 60 \Rightarrow x = 4$

Numbers = 20, 25, 30

Q23. Volume sphere = $4/3 \times \pi \times r^3$

Large sphere: $4/3 \pi \times (3.5)^3 = 179.59 \pi$

Small sphere: $4/3 \pi \times (0.7)^3 = 1.436 \pi$

Number = $179.59 / 1.436 \approx 125$

Q24.

Start with $\tan A + \cot A = (\sin A / \cos A) + (\cos A / \sin A)$

$= (\sin^2 A + \cos^2 A) / (\sin A \cos A)$

$= 1 / (\sin A \cos A)$

Right side: $(\sec^2 A + \operatorname{cosec}^2 A) / (\tan A + \cot A) \rightarrow$ also simplifies to

$1 / (\sin A \cos A) \checkmark$

Q25. Sum = Mean \times n

$$\text{Total} = 15 \times 5 = 75$$

$$\text{Remaining 4 numbers} \rightarrow 12 \times 4 = 48$$

$$\text{Removed} = 75 - 48 = 27$$

Q26.

$$S_n = 3n^2 + 2n$$

$$a_1 = 5 \text{ (put } n=1\text{)}$$

$$a_n = S_n - S_{n-1}$$

$$= (3n^2 + 2n) - [3(n-1)^2 + 2(n-1)]$$

$$= 3n^2 + 2n - (3n^2 - 6n + 3 + 2n - 2)$$

$$= 3n^2 + 2n - 3n^2 + 6n - 3 - 2n + 2$$

$$= 6n - 1$$

✓ So nth term = $6n - 1$

✓ **Moral of the Paper (2016):**

“Hard work and logic always add up to success — one step, one equation at a time.”

CBSE Class 10 Science Year 2016

◆ Section A – Very Short Answer (1 mark each)

- Q1.** When a ray of light passes from air to glass, does it bend towards or away from the normal?
- Q2.** Write the electron configuration of chlorine (atomic number = 17).
- Q3.** Write the chemical equation for the reaction of iron with copper sulphate solution.
- Q4.** Which type of mirror is used in torches?
- Q5.** Write one harmful effect of ultraviolet radiation on humans.
- Q6.** Define the term “evolution” in one sentence.
-

◆ Section B – Short Answer Type-I (2 marks each)

- Q7.** What is a neutralization reaction? Write an example.
- Q8.** A convex lens forms a real and inverted image of a candle. If the candle is moved closer to the lens, what happens to the image?
- Q9.** Write two differences between metals and non-metals based on chemical properties.
- Q10.** What is meant by the term “refraction”? Give one daily life example.

Q11. State two characteristics of a good fuel.

Q12. What is meant by 1 ohm resistance?

◆ Section C – Short Answer Type-II (3 marks each)

Q13. Explain the process of electrolysis of water with the help of a diagram.

Q14. Define homologous organs. How do they support the theory of evolution?

Q15. Draw a ray diagram for an object placed between the focus and pole of a concave mirror.

Q16. An electric current of 3 A flows through a 5Ω resistor for 2 minutes. Calculate:

- (a) Potential difference across the resistor
- (b) Heat produced

Q17. Write any three differences between convex and concave lenses.

Q18. What are trophic levels? Why is energy flow in a food chain unidirectional?

◆ Section D – Long Answer Type (4 marks each)

Q19.

- (a) Write the modern periodic law.
- (b) How does atomic size vary in a group and period?

(c) Name the element with atomic number 11 and give its position in the periodic table.

Q20.

- (a) What is an exothermic reaction? Give one example.
- (b) State one difference between combination and decomposition reactions.
- (c) Write a balanced equation for the reaction of calcium oxide with water.

Q21.

- (a) Define Ohm's law.
- (b) Draw a graph showing the relationship between potential difference and current.
- (c) A current of 0.5 A flows through a $10\ \Omega$ resistor. Find potential difference and heat produced in 2 minutes.

Q22.

- (a) What is photosynthesis? Write its chemical equation.
- (b) Why do plants appear green in colour?
- (c) Name the organelle where photosynthesis occurs.

Q23.

- (a) What is a decomposer?
- (b) How do decomposers help in maintaining environmental balance?
- (c) Explain why energy flow is said to be "unidirectional".

Q24.

- (a) What is a prism?
- (b) Draw a ray diagram showing refraction of white light through a glass prism.
- (c) Name the phenomenon responsible for the formation of a rainbow.

Solutions – 2016

Section A

Q1. It bends *towards the normal* (because glass is denser than air).

Q2. 2, 8, 7

Q3. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$

Q4. Concave mirror

Q5. Causes skin cancer and eye cataract.

Q6. Evolution is the gradual change in living organisms over generations.

Section B

Q7. A reaction where an acid reacts with a base to form salt and water.

Example: $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$

Q8. The image becomes *larger* and moves *away* from the lens.

Q9.

Metals

Form basic oxides

Non-Metals

Form acidic oxides

Metals

Lose electrons

Non-Metals

Gain electrons

Q10. Refraction is bending of light when it enters a different medium.

Example: A coin appears raised in water.

Q11.

1. High calorific value.
2. Easy availability and pollution-free.

Q12. A conductor has resistance 1Ω if 1 A current produces 1 V potential difference.

Section C

Q13. Water splits into H_2 and O_2 gas when electricity passes through it.



(Oxygen at anode, hydrogen at cathode)

Q14. Homologous organs: Similar in structure, different in function.

Example: Forelimbs of humans and wings of bats.

They show common ancestry.

Q15. (Diagram: concave mirror, object between F and P \rightarrow virtual, erect, enlarged image formed behind mirror)

Q16.

$$I = 3 \text{ A}, R = 5 \Omega$$

(a) $V = IR = 15 \text{ V}$

(b) $H = I^2Rt = 3^2 \times 5 \times 120 = 5400 \text{ J}$

Q17.

Convex Lens

Concave Lens

Converging

Diverging

Real image

Virtual image

Used in magnifying glass Used in spectacles

Q18. Trophic level = position in food chain (producer, consumer, etc.)

Energy flow is unidirectional as energy is lost as heat and cannot return.

Section D

Q19.

(a) Properties of elements are periodic function of atomic number.

(b) Size increases down group, decreases across period.

(c) $Z = 11 \rightarrow$ Sodium, Group 1, Period 3.

Q20.

(a) Exothermic \rightarrow releases heat (e.g. combustion).

(b) Combination joins, decomposition splits.

(c) $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$

Q21.

(a) $V \propto I \rightarrow V = IR$

(b) Straight line through origin (Ohmic behavior).

(c) $V = IR = 0.5 \times 10 = 5 \text{ V}$

$$H = I^2 R t = 0.25 \times 10 \times 120 = 300 \text{ J}$$

Q22.

(a) Photosynthesis: $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$

(b) Green pigment chlorophyll reflects green light.

(c) Occurs in chloroplast.

Q23.

(a) Decomposers break dead matter.

(b) Recycle nutrients, maintain soil fertility.

(c) Energy flows in one direction — producer \rightarrow consumer \rightarrow decomposer.

Q24.

(a) Prism: Transparent refracting device with triangular base.

(b) (Diagram showing VIBGYOR).

(c) Dispersion of light.

✓ Moral of Paper (2016 Science):

“In Science, understanding the reason is more powerful than remembering the result.”

CBSE Class 10 Social Science Year 2016

Section A – History (1 mark each)

- Q1.** Who was the author of the book *Hind Swaraj*?
- Q2.** In which year did the Non-Cooperation Movement start?
- Q3.** Who led the Khilafat Movement from India?
- Q4.** What was the main objective of the Civil Disobedience Movement?
- Q5.** Name one factor that led to the rise of nationalism in Europe.
-

Section B – Geography (2 marks each)

- Q6.** Define the term “resource”. Give one example.
- Q7.** What are the causes of land degradation in India? Write any two.
- Q8.** Name two major soil types found in India and one crop grown in each.
- Q9.** Mention any two advantages of water harvesting.
- Q10.** What is mixed farming? Give one example.
-

Section C – Political Science (2 marks each)

Q11. What is meant by “federalism”?

Q12. Write two features of Indian democracy.

Q13. Why is power sharing desirable in a democracy?

Q14. Define “secularism” as followed in India.

Q15. What is a political party? Write one function of it.

Section D – Economics (3 marks each)

Q16. Define Gross Domestic Product (GDP).

Q17. Differentiate between organized and unorganized sectors.

Q18. What are the three sectors of the Indian economy? Mention one example each.

Q19. What is the main objective of the public sector in India?

Q20. Why are sustainable development and environmental protection necessary?

Section E – Long Answer Type (4 marks each)

Q21.

(a) Explain the main features of the Non-Cooperation Movement.

(b) Mention two outcomes of this movement.

Q22.

(a) Describe any four characteristics of alluvial soil.

(b) Why is it agriculturally important?

Q23.

- (a) Explain how democracy helps in promoting equality.
- (b) Mention two challenges faced by democracy.

Q24.

- (a) Explain the importance of credit in economic development.
- (b) Mention one risk associated with informal sources of credit.

Solutions – 2016

Section A – History

Q1. *Hind Swaraj* was written by Mahatma Gandhi.

Q2. 1920

Q3. Mohammad Ali and Shaukat Ali

Q4. To attain complete independence and resist unjust laws.

Q5. The spread of liberal ideas and French Revolution.

Section B – Geography

Q6. Resource: Anything useful to humans. Example: Coal.

Q7.

1. Overgrazing.
2. Deforestation.

Q8.

- Alluvial soil → Wheat
- Black soil → Cotton

Q9.

1. Recharges groundwater.
2. Reduces floods.

Q10. Mixed farming: Growing crops and rearing animals on the same farm.

Example: Punjab farms.

Section C – Political Science

Q11. Federalism is a system where power is divided between central and state governments.

Q12.

1. Free and fair elections.
2. Fundamental rights for citizens.

Q13. Power sharing reduces conflict and ensures political stability.

Q14. Secularism means no official religion; all religions treated equally.

Q15. A political party is a group with shared ideology aiming to gain power.

Function: Contest elections.

Section D – Economics

Q16. GDP is the total value of all final goods and services produced in a country during a year.

Q17.

Organized**Unorganized**

Regular jobs

Irregular employment

Legal protection

No job security

Q18.

- Primary – Agriculture
- Secondary – Industry
- Tertiary – Services

Q19. To provide public welfare and infrastructure.

Q20. They ensure balance between growth and environmental protection.

Section E – Long Answer Type**Q21.**

- (a) Non-Cooperation Movement aimed at boycotting British goods, schools, and laws.
- (b) Outcomes: Spread of nationalism; British realized Indian unity.

Q22.

- (a) Alluvial soil: Rich in potash, fertile, found in Indo-Gangetic plains, supports many crops.
- (b) It supports rice, wheat, sugarcane due to high fertility.

Q23.

- (a) Democracy promotes equal participation and opportunity.
- (b) Challenges: Corruption, illiteracy.

Q24.

- (a) Credit provides funds for production and expansion.
 - (b) Informal sources may charge high interest rates.
-

✓ **Moral of Paper (2016 Social Science):**

“Understanding history builds awareness — geography roots it, civics empowers it, economics sustains it.”

CBSE Class 10 Hindi A Year 2016

खंड – अ (अपठित गद्यांश / पठन कौशल)

प्रश्न 1. नीचे दिए गए गद्यांश को ध्यानपूर्वक पढ़िए और उसके बाद पूछे गए प्रश्नों के उत्तर लिखिए –

“मनुष्य समाज में रहता है और समाज ही उसकी प्रगति का आधार है। जिस समाज में लोग परस्पर सहयोग और समझदारी से रहते हैं, वह समाज सशक्त और उन्नत बनता है। समाज का विकास तभी संभव है जब उसमें रहने वाले सभी व्यक्ति अपने कर्तव्यों का पालन करें।”

- (क) मनुष्य की प्रगति का आधार क्या है?
(ख) समाज को सशक्त और उन्नत बनाने के लिए क्या आवश्यक है?
(ग) समाज का विकास कब संभव है?
(घ) “उन्नत” शब्द का पर्यायवाची लिखिए।
-

खंड – ब (व्याकरण)

प्रश्न 2. नीचे दिए गए वाक्यों में से क्रिया पहचानिए –

- (क) राम प्रतिदिन विद्यालय जाता है।
(ख) विद्यार्थी ध्यान से पढ़ते हैं।

प्रश्न 3. निम्न वाक्य को नकारात्मक वाक्य में बदलिए –
“मैं विद्यालय जाऊँगा।”

प्रश्न 4. “विद्यालय” शब्द में कौन-सा समास है?

प्रश्न 5. नीचे दिए गए वाक्यांशों के लिए एक शब्द लिखिए —

- (क) जो दूसरों का भला करे
- (ख) जो बार-बार जन्म ले

प्रश्न 6. निम्न वाक्य में त्रुटि सुधारिए —

“वह कल स्कूल जाते हैं।”

खंड – स (रचनात्मक लेखन)

प्रश्न 7. निम्नलिखित विषयों में से किसी एक पर लगभग 120–150 शब्दों में अनुच्छेद लिखिए —

- (क) समय का सदुपयोग
- (ख) पर्यावरण संरक्षण

प्रश्न 8. निम्न में से किसी एक विषय पर पत्र लिखिए —

- (क) विद्यालय में पौधारोपण कार्यक्रम के आयोजन के लिए प्रधानाचार्य को पत्र।
 - (ख) अपने मित्र को परीक्षा की तैयारी के लिए प्रेरित करते हुए पत्र।
-

खंड – द (साहित्य – पाठ्यपुस्तक आधारित)

प्रश्न 9. “साखी” का अर्थ लिखिए। कबीर के दो दोहे लिखिए और उनका भावार्थ दीजिए।

प्रश्न 10. “पुष्प की अभिलाषा” कविता का मुख्य संदेश क्या है?

प्रश्न 11. सूरदास के पदों में कौन-सा भाव प्रकट हुआ है?

प्रश्न 12. “सावित्री” कहानी के मुख्य पात्र की दो विशेषताएँ लिखिए।

प्रश्न 13. “पत्र लेखन” के दो लाभ लिखिए।

Solutions – 2016

खंड – अ (अपठित गद्यांश / पठन कौशल)

प्रश्न 1. नीचे दिया गया गद्यांश पढ़िए और उत्तर दीजिए –

“मनुष्य समाज में रहता है और समाज ही उसकी प्रगति का आधार है। जिस समाज में लोग परस्पर सहयोग और समझदारी से रहते हैं, वह समाज सशक्त और उन्नत बनता है। समाज का विकास तभी संभव है जब उसमें रहने वाले सभी व्यक्ति अपने कर्तव्यों का पालन करें।”

(क) मनुष्य की प्रगति का आधार क्या है?

मनुष्य की प्रगति का आधार उसका समाज है। यदि समाज संगठित, सहयोगी और नैतिक मूल्यों पर आधारित हो तो व्यक्ति का भी विकास सुनिश्चित होता है। समाज ही मनुष्य को शिक्षा, संस्कृति और जीवन के अवसर प्रदान करता है।

(ख) समाज को सशक्त और उन्नत बनाने के लिए क्या आवश्यक है?

समाज को सशक्त और उन्नत बनाने के लिए आवश्यक है कि लोग आपसी सहयोग, समझदारी और एकता बनाए रखें। जब लोग एक-दूसरे की भलाई चाहते हैं और अपने-अपने कर्तव्यों का ईमानदारी से पालन करते हैं, तब समाज प्रगति करता है।

(ग) समाज का विकास कब संभव है?

समाज का विकास तभी संभव है जब प्रत्येक नागरिक अपने कर्तव्यों का पालन करे। केवल अधिकारों की मांग करने के बजाय जब हर व्यक्ति समाजहित में कार्य करेगा, तभी सच्ची उन्नति संभव है।

(घ) “उन्नत” शब्द का पर्यायवाची लिखिए।
“उन्नत” का पर्यायवाची – प्रगतिशील या विकसित।

खंड – ब (व्याकरण)

प्र2. नीचे दिए गए वाक्यों में से क्रिया पहचानिए –
(क) राम प्रतिदिन विद्यालय जाता है।
क्रिया – जाता है (यह वर्तमान काल की क्रिया है)।

(ख) विद्यार्थी ध्यान से पढ़ते हैं।
क्रिया – पढ़ते हैं (यह समूह-क्रिया है)।

प्र3. वाक्य को नकारात्मक वाक्य में बदलिए –
“मैं विद्यालय जाऊँगा।”
“मैं विद्यालय नहीं जाऊँगा।”

प्र4. “विद्यालय” शब्द में कौन-सा समास है?
“विद्यालय” शब्द ‘विद्या + आलय’ से बना है। यहाँ विद्या का स्थान (आलय) बताया गया है, इसलिए यह तत्पुरुष समास है।

प्र5. नीचे दिए गए वाक्यांशों के लिए एक शब्द लिखिए –
(क) जो दूसरों का भला करे – परोपकारी
(ख) जो बार-बार जन्म ले – पुनर्जन्मी

प्र6. निम्न वाक्य में त्रुटि सुधारिए –
“वह कल स्कूल जाते हैं।”
सही वाक्य – “वह कल स्कूल गया था।”

खंड – स (रचनात्मक लेखन)

प्र7 (क): अनुच्छेद – समय का सदुपयोग

समय हमारे जीवन का सबसे बड़ा धन है। जो व्यक्ति समय का सदुपयोग करता है, वही जीवन में सफलता प्राप्त करता है। समय एक बार चला जाए तो वापस नहीं आता, इसलिए हमें हर कार्य निर्धारित समय पर पूरा करना चाहिए। विद्यार्थियों के लिए समय की महत्ता और भी अधिक होती है क्योंकि यही उनके भविष्य की नींव है। आलस्य और समय की बर्बादी मनुष्य को पिछे छोड़ देती है। इसलिए हर व्यक्ति को चाहिए कि वह अपने समय का पूरा-पूरा सदुपयोग करे ताकि जीवन सार्थक बन सके।

प्र7 (ख): अनुच्छेद – पर्यावरण संरक्षण

पर्यावरण हमारे जीवन का आधार है। स्वच्छ वायु, जल और हरियाली के बिना मानव जीवन संभव नहीं है। आज मनुष्य की असंयमित गतिविधियों के कारण प्रदूषण बढ़ रहा है। वृक्षों की अंधाधुंध कटाई, औद्योगिक धुआँ और प्लास्टिक का अत्यधिक प्रयोग पर्यावरण के लिए घातक हैं। हमें वृक्षारोपण करना चाहिए, जल संरक्षण के उपाय अपनाने चाहिए और प्लास्टिक के स्थान पर पर्यावरण-अनुकूल वस्तुओं का प्रयोग करना चाहिए। पर्यावरण की रक्षा कर हम अपने भविष्य की सुरक्षा कर सकते हैं।

प्र8 (क): पत्र – प्रधानाचार्य को पौधारोपण कार्यक्रम हेतु आवेदन

सेवा में,
प्रधानाचार्य महोदय,
(विद्यालय का नाम)

सादर नमस्कार।

मैं आपके विद्यालय का विद्यार्थी (नाम) कक्षा x से हूँ। मैं यह निवेदन करना

चाहता हूँ कि हमारे विद्यालय में पौधारोपण कार्यक्रम आयोजित किया जाए। इससे विद्यालय का वातावरण हराभरा रहेगा और विद्यार्थियों में पर्यावरण के प्रति जागरूकता बढ़ेगी। कृपया इस हेतु एक दिन निर्धारित करें।

आपका आज्ञाकारी विद्यार्थी,
(नाम)

खंड – द (साहित्य)

प्र9. “साखी” का अर्थ और कबीर दोहे का भावार्थ —

“साखी” का अर्थ दो पंक्तियों का छोटा पद होता है, जिसमें गहन जीवन शिक्षा दी जाती है।

कबीर दोहा:

“बड़ा हुआ तो क्या हुआ, जैसे पेड़ खजूर,
पंथी को छाया नहीं, फल लगे अति दूर।”

भावार्थ:

कबीर कहते हैं कि केवल ऊँचा दिखना या अहंकार करना व्यर्थ है। जैसे खजूर का पेड़ ऊँचा होता है पर छाया नहीं देता, वैसे ही जो व्यक्ति दूसरों के काम न आए, उसकी ऊँचाई व्यर्थ है। सच्ची महानता दूसरों के लिए उपयोगी बनने में है।

प्र10. “पुष्प की अभिलाषा” कविता का संदेश —

कवि माखनलाल चतुर्वेदी इस कविता में देशभक्ति की भावना प्रकट करते हैं। वे कहते हैं कि वे स्वर्ग में नहीं, बल्कि मातृभूमि की सेवा में खेलना

चाहते हैं। कवि चाहते हैं कि उनका जन्म भारतमाता की मिट्टी में हो ताकि वे देश के काम आ सकें। कविता त्याग, बलिदान और देशसेवा का सुंदर उदाहरण है।

प्र11. सूरदास के पदों में व्यक्त भाव —

सूरदास के पदों में वात्सल्य भाव प्रमुख रूप से व्यक्त हुआ है। उन्होंने बालकृष्ण के बाल्य जीवन के मधुर प्रसंगों का चित्रण किया है। माँ यशोदा का अपने पुत्र के प्रति स्नेह और प्रेम बहुत ही कोमलता से दर्शाया गया है। इन पदों से मातृत्व की ममता और भक्ति की गहराई दोनों झलकती हैं।

प्र12. “सावित्री” कहानी के मुख्य पात्र की विशेषताएँ —

सावित्री इस कहानी की नायिका है। वह निष्ठावान, साहसी और अपने पति के प्रति समर्पित नारी है। जब यमराज उसके पति सत्यवान की आत्मा ले जाते हैं, तो सावित्री उनसे बुद्धिमत्ता और निडरता से संवाद करती है और अपने तर्कों से अपने पति का जीवन वापस प्राप्त करती है। वह स्त्री की निष्ठा और दृढ़ता का प्रतीक है।

प्र13. पत्र लेखन के लाभ —

पत्र लेखन विचारों और भावनाओं की सटीक अभिव्यक्ति का माध्यम है। इसके द्वारा हम दूर बैठे व्यक्ति तक अपना संदेश पहुँचा सकते हैं। यह संबंधों को सुदृढ़ करता है और संवाद को सार्थक बनाता है।



Acknowledgment

It gives me immense pleasure to present this book — *CBSE Class 10 Previous Year Question Papers (2016–2025) with Solutions* — to the students preparing for the **Board Exam 2026**.

This work would not have been possible without the guidance, support, and encouragement of many people.

First and foremost, I express my heartfelt gratitude to the **Central Board of Secondary Education (CBSE)** for continuously striving to make education more analytical, skill-based, and meaningful for learners. Their efforts towards competency-based assessment inspired me to design this book in a **student-friendly and exam-oriented format**.

I extend my sincere thanks to all **teachers, mentors, and subject experts** whose constant feedback, academic insights, and valuable suggestions helped shape the structure and accuracy of this book.

A special note of appreciation goes to the **students and educators** who shared their real exam experiences. Their insights into question trends, presentation skills, and time management strategies helped make this guide truly practical.

I would also like to acknowledge the efforts of **Swan India Publication** team for their dedication in editing, formatting, and ensuring the highest standards of quality and presentation.

Lastly, I thank my **family and well-wishers** for their unwavering belief and encouragement, which motivated me to bring this work to completion.

I sincerely hope that this book becomes a **useful companion** for every Class 10 student aiming for excellence in the Board Exam 2026 and beyond. May this guide help you learn, practice, and achieve your dreams with confidence.

“Success is not just about marks — it’s about mastering knowledge with clarity, courage, and consistency.”

With warm regards and best wishes,

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