



SACRED HEART SCHOOL

(Affiliated to CBSE, New Delhi, up to +2 Level)

HOLIDAY HOMEWORK (2026-27)

CLASS:- XI(Science)

English

1. Writing Section Practice

Pick any 3:

Notice Writing: Draft a notice for your school's Inter-House Debate Competition. Include date, venue, eligibility.

Advertisement: Design a classified ad for "Tuition Classes for Class 10" OR a display ad for "Grand Opening of Book Café".

Speech: Write a 120-150 word speech on "Impact of Social Media on Teenagers".

Letter to Editor: On "Rising Street Dog Menace in Your Locality" OR "Need for Mental Health Counselors in Schools".

2. Literature Section – Hornbill + Snapshots

Hornbill: Read "The Portrait of a Lady" + "We're Not Afraid to Die". Write 80-100 word character sketches of the Grandmother and the narrator's father.

Poem: From "A Photograph" by Shirley Toulson, explain the central idea + 3 poetic devices used, with examples.

Snapshots: Summarize "The Summer of the Beautiful White Horse" in 150 words. Add one question you'd ask Mourad if you met him.

3. Reading + Grammar

4. Project Work – pick 1, makes your file look solid

i. Interview: Interview any elder about "Education Then vs Now". Transcribe it + add your reflection in 200 words.

ii. Book Review: Read any non-syllabus novel/short story. Format: Title, Author, Plot in 100 words, Your views, Favorite quote.

iii. ALS Project: If your school does ASL, prepare a 2-min speech on "Artificial Intelligence: Boon or Bane" with cue cards.

Mathematics

Q1.) In a survey of 50 persons of an apartment, it was found that 15 persons read magazine A, 18 persons read magazine B, 16 persons read magazine C, 8 read both A and B, 10 read both B and C, 7 read both C and A, and 5 read all the three magazines.

On the basis of above information:

(i) Find how many persons read only magazine A.

(ii) Find how many persons read only B.

Q2.) A student taking admission in science stream of a school may opt either Biology or Computer Science as per his/her choice. If set (B) represents the set of students opting for Biology and set (C) represents the set of students opting for Computer Science.

Answer the following questions:

(i) Taking at least one of these two subjects.

(ii) Taking Biology but not Computer Science.

(iii) Taking Computer Science but not Biology.

Q3.) Neha is doing a designing course. She is working on Cartesian Art nowadays. For it, she wants to take x-coordinates from the set

$$A = \{0, 1, 2, 3, 5\}$$

and y-coordinates from the set

$$B = \{-3, -2, -1, 0, 1, 2, 3\}$$

On the basis of above information:

(i) Find the number of ordered pairs Neha can make from A to B.

(ii) How many ordered pairs Neha can make from B to A?

(iii) If a relation from A to B is defined as

$$R = \{(a, b) : a < b, a \in A, b \in B\}$$

then how many elements are there in R.

(a) 6 (b) 8 (c) 12 (d) 20

Q4.) If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$, $A = \{1, 2, 3, 4\}$, $B = \{5, 6\}$, $C = \{1, 7, 8\}$

On the basis of above information find.

- (i) A'
- (ii) $(A - B)$
- (iii) $(A \cup B)'$
- (iv) $A' \cap B'$
- (v) $(B \cup C)'$

Q5.) (A) Let $A = \{a, b\}$ and $B = \{a, b, c\}$ then $A \subset B$

(R) If $A \subset B$ then $A \cup B = B$

- (a) A is true, R is true, R is correct explanation of A.
- (b) A is true, R is true, R is not correct explanation of A.
- (c) A is true, R is false.
- (d) A is false, R is true.

PHYSICS

Q1.) find equation of motion by calculus method

Q2.) dimension of the physical quantity

CHEMISTRY

Q1. Law of chemical combination.

All five types with examples.

Q2. Write the rules to find significant figures.

Q3. Multiple choice question of chemistry handbook of chapter- Mole concept

BIOLOGY

Practical work in copy

Experiment 1: to study about the common flowering plants from family Solanaceae

Experiment 2: to study about the TS of dicot and monocot roots and stem

Experiment 3: study of osmosis by potato osmometer

Experiment 4: study of plasmolysis in epidermal peels

Experiment 5: to study the distribution of stomata on the upper and lower surface of leaf

Physical Education

Q1.) Prepare Practical Record File.

Information Technology

Q1: Study the following situation:

A computer receives data through keyboard, processes it using CPU, and displays the result on monitor.

- (a) Identify the three main stages involved in this process.
- (b) Name the component responsible for processing data.
- (c) Explain why CPU is called the "brain of the computer".

Q2: A school computer lab follows rules such as proper shutdown, careful handling of keyboard and monitor, and avoiding misuse of computers.

- (a) Why should computers be handled carefully?
- (b) Which value is reflected by responsible use of computers?
- (c) Mention one benefit of ethical computer usage.

Q3: A bank uses computers to process customer transactions.

Explain how different components of a computer system work together during a withdrawal transaction using the block diagram concept.