

CH. CHHABIL DASS PUBLIC SCHOOL



SUMMER VACATION
HOMEWORK

SESSION 2026-27

CLASS XII(SCIENCE)

PHYSICS

Q 1. Do the given assignment. (Chapter 1, 2).

Q2. Write the given Activities in Physics lab manual. Three from Sec A and three from section B.

Section A

1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
2. To assemble the components of a given electrical circuit.
3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section B

4. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
5. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
6. To observe diffraction of light due to a thin slit.

Q3. Investigatory Project (Typed and Spiral)

COMPUTER SCIENCE

Prepare Mysql Practical File According To The Questions Given Below:

- Create a student table with the student id, name, and marks as attributes where the student id is the primary key.
 - Insert the details of a new student in the above table (at least 10 records).
 - Delete the details of a student in the above table.
 - Use the select command to get the details of the students with marks more than 80.
 - Find the min, max, sum, and average of the marks in a student marks table.
 - Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.
 - Write a SQL query to order the (student ID, marks) table in descending order of the marks
 - Write a SQL query to display the marks without decimal places, display the remainder after dividing marks by 3 and display the square of marks
 - Write a SQL query to display names into capital letters, small letters, display first 3 letters of name, display last 3 letters of name, display the position the letter A in name
 - Remove extra spaces from left, right and both sides from the text – " Informatics Practices Class XII "
 - Display today's date in "Date/Month/Year" format.
 - Display day name, month name, day, day name, day of month, day of year for today's
- date revise database concepts , mysql and networking for pmse

CHEMISTRY.

REACTIONS AND FORMULAS

Maintain a separate notebook for -

- 1 Name reactions (Organic Chem)
2. Important formulas and conversions
3. Mechanisms (basic level)

ORGANIC CHEMISTRY PRACTICE

Conversion-based questions.

Identify reagents and products.

Practice IUPAC nomenclature

Prepare your project file as told by the teachers.

Practice NCERT exercises.

Come prepared with chapters of Physical chemistry.

Solve/practice questions from Sample papers of Unit-6,7,8.

BIOLOGY:

1. Do the given assignments (Ch-1 to 4)
2. Complete all the NCERT question/answers in the notebook.
3. Complete all done practical in biology practical file.
4. Prepare investigatory project file along with case study as per given topic.

ENGLISH

Choose

1. any two factual/ descriptive/ literary unseen passages
2. any two case-based unseen passages with verbal/visual inputs like statistical data, charts etc. from the latest study material available in reference books or internet. Paste the passages in Writing Skills register . Solve them.

Revise the words added in MY

WORD BANK. # Revise

Literature chapters studied till
now.

Complete the ALS PROJECT WORK as instructed.

PSYCHOLOGY

1. Maintain a Practical File.
2. Maintain a Project File.

Format of Practical File

1. Cover Page
2. Acknowledgement
3. Certificate
4. Index

I. Introduction to Psychological testing

- What is Psychology?
- Goals of Psychological Enquiry
- Steps of Scientific Research
- Methods in Psychology

a) Observation Method

(Types of Observation, Advantages and limitations of Observation)

b) Experimental Method

(Concept of Variable, Experimental & Control group and types of experimental method, advantages and limitations of experimental method)

c) Interview (Types of interview method, Advantages and limitations of interview)

d) Psychological Tests

(Characteristics of Psychological Test, types of tests, advantages and limitations of Psychological tests and uses of Psychological tests)

II. Practical

Format of Project File (Case Study File)

1. Cover Page
2. Acknowledgement
3. Certificate
4. Index

I. Case Study

- Introduction to Case Study
- Advantages and disadvantages
- Ethical Issues

II. Case Study on Psychological Disorders

- Preliminary Information
- Presenting Problems/Complaints
- Psychiatric/Social/Medical history (if any)
- Case Conceptualization/Case formulation
 - a) Explain disorder
 - b) Perpetuating factors
 - c) Causal factors
 - d) Strengths and assets
 - e) Diagnosis (ICD-10, DSM-5)
 - f) Treatment plan
- Conclusion
- References

Note:

- ❖ Do this work on A4 size/file size sheet (white one side ruled or interleaved).
- ❖ Use only black and blue pen while writing content.

INFORMATICS PRACTICES

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COMM.ART.

- Complete your practical file paintings on given topics.
 - Make a greeting card of a size - 10" × 8.5" on hard attractive sheet with cut/ paste and colour. It should be creative but not got, sitare & golden silver sparkles. Nothing should be written on the card.
 - Visit to the National Museum, New Delhi, Craft Museum near Pragti Maidan. New Delhi and click the photographs of the items display there and paste them on A2 size sheet with information.

MATHS

- Maths activities to be done in practical file .
- Worksheet of relations and functions
- Worksheet of inverse trigonometric functions .
- Worksheet of matrices.
- Worksheet of determinants.

Music

1. परिभाषा -अलंकार, कण, मींड खटका, मुर्गी, गमक
2. जीवन परिचय फैयाज खान पंडित कृष्ण शंकर पंडित
3. ताल तीन ताल , झपताल -शास्त्रीय परिचय -एक गुण दो गुण, त्रिगुण चौगुन
4. तानपुरे को मिलने की विधि और उनके नाम चित्र सहित
5. विशेषताएं
6. भैरव -आलाप
7. ताने 16 मात्रा 32 मात्रा
8. तराना राग भैरव 16 मात्रा में
9. राग भैरव द्रुत लय 16 मात्रा में स्थाई अन्तरे के साथ बदिश लिखें

PHYSICAL HEALTH & EDUCATION

Theory Assignment-

Complete the following units from your textbook:

Unit 1-Management in Sporting Events

Unit 2-Children & Women in Sports

Unit 3-Yoga as a Preventive Measure for Lifestyle Diseases

Unit 4-Physical Education & Sports for CWSN (Children With Special Needs)

Project/Practical Work

Prepare the following practical files as discussed in class:

Practical-1: Game of Your Choice

Choose one game from the following:

- (A) Football
- (B) Basketball
- (C) Cricket
- (D) Volleyball

Include in your file: History of the game , Labelled diagram of the field/court ,Equipment used ,Game rules, Common terminologies, Basic skills involved

Practical-2: Yoga Asanas

Choose any two asanas for each of the following lifestyle diseases:

Obesity , Diabetes ,Asthma, Hypertension , Backpain , Arthritis

