



**LOYOLA CONVENT SCHOOL**  
**RANCHI, JHARKHAND**  
**SESSION-2024-25**  
**SUMMER VACATION HOLIDAY HOMEWORK**  
**CLASS-XII**

**ENGLISH CORE (301)**

**I. Schedule:**

● Schools may refer to the suggestive timeline given in these guidelines for the planning, preparation and viva-voice of ALS based projects.

● The final assessment of the skills may be done on the basis of parameters suggested by the Board.

Language teachers, however, have the option to adopt/ modify these parameters according to their school specific requirements.

**II. Suggestions for Project Work:**

● The Project can be inter-disciplinary in theme. The ideas/issues highlighted in the chapters/ poems/ drama given the prescribed books can also be developed in the form of a project. Students can also take up any relevant and age-appropriate theme.

● Such topics may be taken up that provide students with opportunities for listening and speaking. Some suggestions are as follows:

a) Interview-Based research:

Example:

● Students can choose a topic on which to do their research/ interview, e.g. a student can choose the topic : “Evolving food tastes in my neighbourhood” or “Corona pandemic and the fallout on families.” Read the available literature.

● The student then conducts interviews with a few neighbours on the topic. For an interview, with the help of the teacher, student will frame questions based on the preliminary research/background.

● The student will then write an essay/ write up / report etc. up to 1000 words on his/her research and submit it. He/ She will then take a viva on the research project. The project can be done in individually or in pairs/ groups

b) Students listen to podcasts/ interviews/radio or TV documentary on a topic and prepare a report countering or agreeing with the speakers. Write an 800 - 1000 words report and submit. Take viva on the report.

c) Students create their own video/ Audio, after writing a script. Before they decide a format, the following elements can be taken into consideration:

● Theme/topic of the audio / video. Would the child like to pick a current issue or something artistic like theatre?

● What are the elements that need to be part of the script?

● Will the video/audio have an interview with one or more guests?

● Would they prefer to improvise while chatting with guests, or work from a script?

● What would be the duration?

● How would they present the script/report to the teacher, e.g. Can it be in the form of a narrative?

d) Students write, direct and present a theatrical production, /One act play

This will be a project which will be done as a team. It will involve planning, preparation and presentation. In short, various language skills will be utilised. There will be researching, discussion, writing the script, auditioning and ultimately producing the play. The project will end with a presentation and subsequently a viva. Teachers will be able to assess the core language skills of the students and help them grow as 21st century critical thinkers.

## HINDI CORE (302)

### 1. परियोजना कार्य

विषय: हिन्दी कविता प्रकृति चित्रण

- भूमिका - क्या है, क्यों है आदि का विवरण
- विभिन्न कवियों की कविताओं का तुलनात्मक प्रभाव
- भाषा शैली विशेषताएँ
- योगदान
- आपका सुझाव

परियोजना कार्य आधार बिंदु

1. विषय
2. आभार ज्ञापन
3. विषय सूची
4. उद्देश्य
5. विषय विवरण
6. साक्ष्य संग्रह
7. अध्ययन का परिणाम
8. स्रोत
9. प्रमाण पत्र
10. अध्यापक टिप्पणी

## PHYSICS (042)

I) Chapter wise prepare a formula lists based on class 11th syllabus and NCERT Physics book-1 and Book-2

II) Prepare Physics Activities file required for CBSE Board Exam. Total six activities (minimum 3 activities from section A and section B each)

Reference book: as given in booklist: Comprehensive Laxmi Publication Physics Lab Manual (follow new book)

### 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

1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
2. Use of multimeter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order.
3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

III) Prepare all the formula list as given in Electrostatics and Ray Optics.

## MATHEMATICS (041)

\*Basics\*: Make a formula sheet file A4. size write all basics concepts, formulae of chapters 1, 10, 11, 12, 13 from NCERT old book.

Activity: 1, 2, 3, 4, 6, 9, 13, 16, 18, 19

Write in activity file

**Note:** For future purpose keep more sheet papers and in regular basis write all essential formulas and concepts.

Case based problems and MCQ from following chapters should be solved from given pdf in class group

- Chapter 1: RELATION AND FUNCTION
- Chapter 10: VECTOR ALGEBRA
- Chapter 11: THREE DIMENSIONAL GEOMETRY
- Chapter 12: LPP (only multiple choice questions from NCERT EXEMPLAR)
- Chapter 13: PROBABILITY

### **BIOLOGY (044)**

Choose any project topic given below and make a detailed investigatory project.

1. Pollination
2. Spermatogenesis
3. Dispersal of seeds
4. Drug addiction
5. DNA fingerprinting
6. [Possible Effects of Maternal Behaviour on Foetal Development](#)
7. [Recombinant DNA Technology In Today's Medicine](#)
8. [Human Genome Project](#)
9. [Sickle Cell Anemia and its Prevention](#)
10. [Pedigree Analysis](#)
11. [Which Cheese Grows Mold The Fastest](#)
12. [Antibiotics Naturally](#)
13. [Human Cloning: Another You?](#)
14. [Detailed Study on Infertility its Causes and Treatment](#)
15. [Study On Gene Therapy](#)

Or you can choose any topic from the book as per CBSE guidelines.

### **POLITICAL SCIENCE (028)**

1. Prepare a project on Any one topic given below ( 20-25 pages) as per CBSE guideline

- Partition of India : Theory behind it and its Legacy
- Comparison Between NITI AAYOG and Planning Commission and their contribution in India's development.
- Emergency : A blot on The Democracy
- Disintegration of USSR with special focus on Gorbachev.
- Cover the negative and positive aspect of relationship between India and following countries (current update should be Highlighted)
  1. Relationship between India and Russia
  2. Relationship between India and Pakistan
  3. Relationship between India and Bangladesh
  4. Relationship between India and China

### **ECONOMICS (030)**

Prepare a project on **any ONE** of the following topics(30-40 pages) as per the given guidelines of CBSE:

1. Role of RBI in control of credit
2. GST Act and its impact on GDP
3. Government Budget and its components
4. Organic Farming; Back to nature
5. Self Help Groups
6. Human Development Index

### **BUSINESS STUDIES (054)**

**Prepare project on any of one topic**

1. Consumer exploitation and consumer protection

2. Effects of covid-19 on business environment
3. Marketing management with one specific product
4. Stock exchange, with complete study of any five enterprises

### CHEMISTRY (043)

1. Define the following terms and write the formula involved:
  - (a) Henry's law                      (b) Raoult's Law
  - (c) Colligative properties :
    - (i) Relative lowering in the vapour pressure
    - (ii) Elevation in boiling point
    - (iii) Depression in freezing point
    - (iv) Osmosis and Osmotic pressure
  - (d) Abnormal molecular mass: van't Hoff factor, dissociation and association, and all the 4 colligative properties in terms of van't Hoff factor.
2. Discuss:
  - (i) Electrochemical cell
  - (ii) Nernst equation
  - (iii) SHE
  - (iv) Batteries – (a) Primary Batteries – Dry cell, Mercury cell. (b) Secondary cell – Lead storage cell, Ni-Cd cell (c) Fuel cell.
3. Numericals: Ex. 1.4 to 1.8, 1.15 to 1.22, 1.26 to 1.36, 1.38 to 1.41.
4. Explain: (a) Sandmeyer's Reaction (b) Markovnikov's Rule & Peroxide effect (c) Finkelstein reaction (d) Swarts reaction (e) Elimination reaction (f) GR (g) Hydroboration reaction (h) Esterification (i) Reimer-Tiemann reaction (j) Williamson synthesis.
5. Discuss: (a) Retention (b) Inversion (c) Racemisation (d) Chirality (e) Saytzeff rule (f) Wurtz reaction.
6. How will you convert:
  - (a) Aniline to aryl halide              (b) Chlorobenzene to phenol              (c) Aniline to Phenol
  - (d) Cumene to Phenol                  (e) By using GR to alcohol.
7. Intext Question: 6.7, 6.9, 6.11, 6.17, 6.18, 6.21, 6.22, & 7.4, 7.5, 7.6, 7.7, 7.8, 7.9.

### ACCOUNTANCY (055)

- Q.1 Sarvesh, Sriniketan and Srinivas are partners in the ratio of 5 : 3 : 2. If Sriniketan's share of profit at the end of the year amounted to On opening balance of partner's capital accounts 1,50,000, what will be Sarvesh's share of profits?
  - (A) Rs.5,00,000                      (B) Rs.1,50,000.                      (C) Rs.3,00,000.                      (D) Rs.2,50,000.
- Q.2 According to Profit and Loss Account, the net profit for the year is Rs.1,50,000. The total interest on partner's capital is Rs.18,000 and interest on partner's drawings is Rs.2,000. The net profit as per Profit and Loss Appropriation Account will be :
  - (A) Rs.1,66,000.                      (B) Rs.1,70,000                      (C) Rs.1,30,000.                      (D) Rs.1,34,000
- Q.3 According to Profit and Loss Account, the net profit for the year is Rs.4,20,000. Salary of a partner is Rs.5,000 per month and the commission of another partner is Rs.10,000. The interest on drawings of partners is Rs.4,000. The net profit as per Profit and Loss Appropriation Account will be :
  - (A) Rs.3,54,000                      (B) Rs.3,46,000.                      (C) Rs.4,09,000                      (D) Rs.4,01,000.
- Q.4 A and B are partners. According to Profit and Loss Account, the net profit for the year is Rs.2,00,000. The total interest on partner's drawings is Rs.1,000. A's salary is Rs.40,000 per year and B's salary is Rs.3,000 per month. The net profit as per Profit and loss Appropriation Account will be :
  - (A) Rs.1,23,000                      (B) Rs.1,25,000.                      (C) Rs.1,56,000                      (D) Rs.1,58,000.
- Q.5 According to Profit and Loss Account, the net profit for the year is Rs.1,40,000. The total interest on partner's capital is Rs.8,000 and a partner is to be allowed commission of Rs.5,000. The total interest on partner's drawings is Rs.1,200. The net profit as per Profit and Loss Appropriation Account will be :
  - (A) Rs.1,28,200.                      (B) Rs.1,44,200                      (C) Rs.1,25,800                      (D) Rs.1,41,800

Q.6 P and Q were partners sharing profit and losses in the ratio of 2 : 1. Their capitals were Rs.12,00,000 and Rs.8,00,000 respectively. They were allowed interest on capital @ 6% p.a. and interest on drawings was to be charged @ 10% p.a. Their drawings during the year were P - Rs.2,40,000 and Q - Rs.1,60,000. Q's share of net divisible profit as per Profit and Loss Appropriation Account amounted to Rs.1,60,000. Net Profit of the firm before any appropriation was :

(A) Rs.4,00,000 (B) Rs.3,80,000. (C) Rs.5,60,000. (D) Rs.5,80,000

Q.7 A and B were partners in a firm. Their capitals at the end of the year ending on 31.3.2021 were Rs.3,00,000 and Rs.1,50,000 respectively. During the year B withdrew Rs.10,000 which was debited to his capital account. Profit for the year ended 31<sup>st</sup> March, 2021 was Rs.32,000 which was credited to their capital accounts. During the year B introduced additional capital Rs.32,000. What was B's capital on 1 .4.2020?

(A) Rs.1,50,000 (B) Rs.1,60,000. (C) Rs.1,12,000. (D) Rs.1,52,000.

Q.8 A, B and C are partners. A's capital is Rs.3,00,000 and B's capital is Rs.1,00,000. C has not invested any amount as capital but he alone manages the whole business. C wants Rs.30,000 p.a. as salary. Firm earned a profit of Rs.1,50,000. How much will be each partner's share of profit :

(A) A Rs.60,000; B Rs.60,000; C Rs.Nil (B) A Rs.90,000; B Rs.30,000; C Rs.Nil

(C) A Rs.40,000; B Rs.40,000; CRs.40,000 (D) A Rs.50,000; B Rs.50,000; CRs.50,000

Q.9 Net profit of a firm is Rs.49,500. Manager is entitled to a commission of 10% on profits before charging his commission. Manager's Commission will be :

(A) Rs.4,950. (B) Rs.4,500. (C) Rs.5,500 (D) Rs.495

Q.10 Net profit of a firm is Rs.79,800. Manager is entitled to a commission of 5% of profits after charging his commission. Manager's Commission will be :

(A) Rs.4,200. (B) Rs.380. (C) Rs.3,990. (D) Rs.3,800.

Q.11 Sarita and Vandana were partners in a firm sharing profits in the ratio of their capitals contributed on commencement of business which were Rs.4,00,000 and Rs.3,00,000 respectively. The firm started business on April 1, 2021. According to the partnership agreement :

(a) Every year, in case of profit, Rs.50,000 or 10% of the profit, whichever is more, will be donated for providing school fees of specially abled children.

(b) Interest on capital is to be allowed at 12% p.a. and interest on Drawing is to be charged at 10% p.a.

(c) Sarita and Vandana are to get a monthly salary of Rs.10,000 and Rs.15,000 respectively.

The profits for year ended March 31, 2022 before making above appropriations was Rs.6,00,000. The drawings of Sarita and Vandana were Rs.2,00,000 and Rs.2,50,000, respectively. Interest on drawings amounted to Rs.10,000 for Sarita and Rs.12,500 for Vandana.

You are required to prepare Profit and Loss Appropriation Account and Partner's Capital Accounts assuming that their capitals are fluctuating.

Q.12 A and B are partners sharing profits in the ratio of 3 : 2, with Capitals of Rs.5,00,000 and Rs.3,00,000 respectively. Interest on Capital is agreed @ 6% p.a. B is to be allowed an annual salary of Rs.60,000. During the year 2022-23, the profits prior to the calculation of interest on capital but after charging B's salary amounted to Rs.1,80,000. A provision of 5% of the profit is to be made in respect of commission to the Manager.

Prepare Profit and Loss Appropriation account showing the distribution of profit and the partner's capital accounts for the year ending March 31,2023.

Q.13 A and B are partners in a firm. A is entitled to a salary of Rs.15,000 p.m. and a commission of 10% of net profit before charging any commission. B is entitled to a commission of 10% of net profit after charging his commission. Net profit for the year ended 31<sup>st</sup> March 2022 was Rs.4,40,000.

You are required to show the distribution of profit.

Q.14A and B are partners in a firm sharing profits and losses in the ratio of 3 : 2 with capitals of Rs.5,00,000 and Rs.2,50,000 respectively on 1<sup>st</sup> April, 2021. Each partner is entitled to 10% p.a. interest on his capital. A is entitled to a commission of 10% on net profit remaining after deducting interest on capitals but before charging any commission. B is entitled to a commission of 8% of net profit remaining after deducting interest on capitals and after charging all commissions. The profits for the year ended 31<sup>st</sup> march, 2022 prior to calculation of interest on capital was Rs.3,75,000.

Prepare necessary journal entries.

A, B and C are partners in a firm. You are informed that :

(i) A draws Rs.10,000 from the firm in the beginning of every month.

(ii) B draws Rs.10,000 from the firm at the end of every month and

(iii) C draws Rs.10,000 from the firm in the middle of every month.

Interest on drawings is to be charged @ 8% p.a. Calculate interest on partner's drawings.

Q.15 Calculate the interest on drawings of Mr. Navdeep @ 10% p.a for the year ended 31<sup>st</sup> March, 2021 in each of the following alternative cases :

Case (a) if he withdrew Rs.20,000 in the beginning of each quarter.

Case (b) If he withdrew Rs.20,000 at the end of each quarter.

Case (c) If he withdrew Rs.20,000 during the middle of each quarter.

Q.16 A, B and C are partners in a firm. They have omitted interest on capital @ 10% p.a. for three years ended 31<sup>st</sup> March, 2022. Their fixed capitals on which interest was to be calculated throughout were :

A	Rs.1,00,000
B	Rs. 80,000
C	Rs. 70,000

Give the necessary adjusting journal entry with working notes.

Q.17 Ajay, Manish and Sachin were partners sharing profits in the ratio 5 : 3: 2. Their Capitals were Rs.6,00,000; Rs.8,00,000 and Rs.11,00,000 as on April 01,2021. As per Partnership deed, Interest on Capitals were to be provided @ 10% p.a. For the year ended March 31, 2022. Profits of Rs.2,00,000 were distributed without providing for Interest on Capitals.

Pass an adjustment entry and show the working clearly.

Q.18 Anil, Sunil and Ravinder entered into a partnership on 1<sup>st</sup> April 2021 to share profit in the ratio of 2 : 1 : 1. It was provided in the deed that Ravinder's share of profit will not be less than Rs.70,000 per annum. The losses for the year ended 31<sup>st</sup> March, 2022 were Rs.2,00,000 before allowing interest Rs.8,000 on Anil's Loan which is due for the current year.

You are required to show necessary account for division of loss and also pass the necessary journal entries.

Q.19 Amay, Anmol and Rohan entered into partnership on 1<sup>st</sup> July, 2021 to share profits and losses in the ratio of 3 : 2 : 1. Amay guaranteed that Rohan's share of profit after charging interest on capital @ 6% p.a. would not be less than Rs.36,000 p.a. Their fixed capital balances are : Rs.2,00,000, Rs.1,00,000 and Rs.1,00,000 respectively. Profit for the year ended 31<sup>st</sup> March, 2022 was Rs.1,38,000.

Prepare Profit and Loss Appropriation A/c.

Q.20 **Assertion (A)** :A partnership firm is a separate and distinct entity from partners from viewpoint of accounting .

**Reason (R)**As per Business Entity Concept, business transactions are recorded from viewpoint of the firm. Hence, it is a separate and distinct entity from partners from viewpoint of accounting.

In the context of the above two statements, which of the following is correct ?

**Codes :**

(A) (A) and (R) both correct and (R) correctly explains (A).

(B) Both (A) and (R) are correct but (R) does not correctly explain (A).

(C) Both (A) and (R) are incorrect.

(D) (A) is correct but (R) is incorrect.

Q.21 **Assertion (A)** :A partnership firm can have maximum 50 partners.

**Reason (R)**Maximum limit of partners is prescribed in Partnership Act, 1932.

In the context of the above two statements, which of the following is correct ?

**Codes :**

(A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

(B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).

(C) Only (A) is correct.

(D) Both (A) and (R) are wrong.

### **HISTORY (027)**

Holiday Homework has to be made on any one of the following topics in the Project File as prescribed by CBSE.

## TOPICS:

1. Bricks, Beads and Bones.
2. Framing the Constitution.
3. Mahatma Gandhi and the Nationalist Movement.
4. An imperial capital: Vijayanagara.
5. Through the eyes of travellers.
6. Kinship, Caste and Class.

### **GEOGRAPHY (029)**

1. Describe the population composition and its various types.
2. Explain the different types of settlement and differentiate between rural and urban settlements.
3. On the map of Europe and Russia draw the Trans- Siberian railway and label the major stations.
4. Explain the development of towns in India and classify the towns on the basis of period of time.
5. Prepare a project work on " Bharatmala and Setubharatam Pariyojana.

### **PHYSICAL EDUCATION (048)**

1. Describe the concept of "KHELO INDIA PROGRAMME " and " FIT INDIA MOVEMENT " in 500 words.
2. Draw a well labelled diagram of your own choice.
  - History
  - Rules and regulations
  - Labelled diagram
  - Players names with achievement
  - Tournament names
  - Awards

### **COMPUTER SCIENCE (083)**

1. Prepare Acitivity/Practical file containing 5 questions each from following topics:
  - a. Conditional Programming
  - b. Lists, Tuples and Dictionary
  - c. User defined functions
  - d. Iterative Programming
2. Write the codes in Python for the following situations:
  - (a) To count the number of characters in the string
  - (b) To change the first character of the string in capital letter
  - (c) To change lowercase to uppercase letter
  - (d) To check whether the given character is letter or number.