



ARMY PUBLIC SCHOOL BIRPUR

**SUMMER VACATION
HOLIDAY HOMEWORK**

(SESSION: 2018-19)

CLASS-9

SUBJECT-ENGLISH

1. Revise the syllabus done for first Periodic Test to be held in July.
2. Write a review on any English movie that you have seen in your language notebook.
3. Write your bio data/CV/Resume on A4 size sheet and paste it in your language notebook.
4. Write and define with example 20 Literary Devices in literature notebook.
5. Look up five words every day from dictionary with meaning and frame sentences by using them in a thin notebook.

SUBJECT-HINDI

नोट- प्रश्न 1 अतिरिक्त अभ्यास पुस्तिका में हल करे।

प्रश्न 3,4,5 व्याकरण की अभ्यास पुस्तिका में ही हल करें।

प्रश्न 2 A-4 आकार के पृष्ठ पर सजाकर लिखें।

प्र.1 पूरक हिंदी पाठ्य पुस्तक (संचयन) के प्रत्येक पाठ को पढ़कर उसमें से चार-चार दीर्घ उत्तरीय प्रश्नों का निर्माण उत्तर सहित कीजिये।

प्र.2 'हम मानवता के लिए उषा की, नयी किरण जगायेंगे.....' प्रस्तुत अधूरी पंक्तियों में दस पंक्तियाँ जोड़ते हुए

एक लघु कविता का निर्माण कीजिये।

प्र.3 निम्न विषयों पर 100 शब्दों में अनुच्छेद लिखिए।

(क) बढ़ते उद्योग कटते वन।

(ख) शिक्षा और साक्षरता।

प्र.4 'हमारा व्यवहार ही हमारा चरित्र है' अपने छोटे भाई को प्रस्तुत उक्ति समझाते हुए पत्र लिखिए।

प्र.5 आपने विद्यालय में चित्र-प्रदर्शनी हेतु एक विज्ञापन तैयार कीजिए।

SUBJECT-MATHS

NOTE: DO ALL THE QUESTIONS IN A SEPARATE THIN NOTEBOOK EXCEPT LAB MANUAL

1. LOGICAL THINKING

- a. At your skating party you noticed 30 legs on the outdoor rink. How many people and dogs are on the outdoor rink?
- b. An insect climbs a 10 m slippery rock in a minute and then slips down 9 m in the next minute. How long will it take him to climb a 30 slippery rock?
- c. If '18 - 4' means 72; '19 ÷ 7' means 26; '17 x 5' means 12 and '15 + 3' means 5, then what does 240 + 6 - 5 ÷ 10 x 12 means ?
- d. If the symbol \$ (for the whole numbers) denotes 'add 5 to the first number and multiply by the double of the second'. For example :-

$$15 \$50 = (15 + 5) \times (2 \times 50) = 20 \times 100 = 2000$$

Then what does 21 \$ 30 means ?

2. PRACTICE TIME:

- a. Practice Examples from NCERT of chap : NUMBER SYSTEM, POLYNOMIAL and HERON'S FORMULA
- b. Plot the points P(-4, 2) and determine the coordinates of the point Q if the line segment PQ is perpendicular to the x axis and is bisected by it.
- c. Mohan and Vicky has the same weight. If they each gain weight by 4 kg, how will their new weights be compared using Euclid's Axiom.

3. LAB ACTIVITY (DO THIS IN THE LAB MANUAL)

- a. Obtain a square root spiral of natural number by graduated strips.
- b. Represent the square root of a natural number experimentally.
3. Verify the algebraic identity : $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$

4. **INVESTIGATIVE PROJECT:** Study the distance between the different points of triangle in X-Y Plane . Rotate the figure through an angle of 180° verify for its length in the other quadrant.

SUBJECT-SCIENCE

Chemistry

1. Make notes of ch1 and form at least 10 questions from it.(In note making copy)
2. Prepare a model to demonstrate movement of particles in solid, liquid and gases given on page no. 13 of NCERT book.
3. Write Experiment for (i) latent heat of vapourisation and fusion
(ii) Process of sublimation(In practical file)

Biology

1. Write details about discoverer of different cell organelles of cell.(In file pages)
2. Describe the detailed structure of compound microscope.(In File pages)
3. Explain various types of plant' tissues (In file pages).
4. Prepare 10 questions other than your book questions from the chapter 5 and 6.
(In separate thin note book).
5. Write the practical 1 & 2 (temporary mount of onion peel & cheek cell) in your Biology practical copy.

Physics

1. Make notes of Chapter 8 and do the numericals given at the end of chapter.
(separate thin notebook)
2. Write in file 10 examples of Newton's laws of motion from everyday life. (In file pages).
3. Visit to UCOST with your parents and write in file pages about the different scientific concepts you learnt there.

SUBJECT- SOCIAL SCIENCE

1. Prepare model on the following topics according to groups:
a) Constitution of India b) Disaster Management (on any disaster)
2. Visit any nearby river with your family and observe structures formed by work of river.
3. Watch a movie on "Rise of Hitler".
4. Revise and make 10 questions each from all the covered chapters in a thin note book.
1marks= 3 questions, 3 marks=3 questions, 5 marks=4 questions(in a flow chart)

HAVE A WONDERFUL VACATION...