

- 5- Find the remainder when $f(x) = 12x^3 - 13x^2 - 5x + 7$ is divided by $(3x + 2)$.
- 6- Find 5 rational numbers between -1 and $\frac{1}{2}$.
- 7- Without actual division, find which of the following rational numbers are terminating decimals:
 (a) $\frac{11}{50}$ (b) $\frac{48}{300}$ (c) $\frac{27}{56}$ (d) $\frac{231}{1260}$
- 8- Find the value of $4\sqrt{3} - 3\sqrt{12} + 2\sqrt{75}$.
- 9- Expand by using identity- $(2a - 5b - 7c)^2$.
- 10- Find zeroes of polynomial $p(x) = 2x^2 + 5x - 3$.
- 11- Find product : $(a - b - c)(a^2 + b^2 + c^2 + ab + ac - bc)$.
- 12- Without actual division, show that $(x^3 - 3x^2 - 13x + 15)$ is exactly divisible by $(x^2 + 2x - 3)$.
- 13- The polynomial $ax^3 + 3x^2 - 3$ and $2x^3 - 5x + a$ when divided by $(x - 4)$ leaves the same remainder. Find value of a .
- 14- Simplify : $0.76 \times 0.76 + 2 \times 0.76 \times 0.24 + 0.24 \times 0.24$.
- 15- Find product : $(x-1)(x+1)(x^2+1)(x^4+1)$.

Note: Revise all taught syllabus and do above given questions in fair notebook.

Our Institutes

- ⇒ **NEW STANDARD PUBLIC SCHOOL SENIOR SECONDARY SCHOOL**
Tripula, Raebareli
- ⇒ **NEW STANDARD BALIKA VIDYA MANDIR**
Semri Kothi, Super Market, Raebareli
- ⇒ **NEW STANDARD PUBLIC SCHOOL INTERMEDIATE COLLEGE**
Baba Devadas Ashram, Salethu, Maharajganj, Raebareli
- ⇒ **NEW STANDARD PUBLIC SCHOOL**
Bagha, Salon, Raebareli
- ⇒ **NEW STANDARD PUBLIC SCHOOL**
Surendra Saraswati Nagar, Lalganj, Raebareli
- ⇒ **RKD NEW STANDARD PUBLIC SCHOOL**
Tejgaon, Raebareli
- ⇒ **NEW STANDARD COLLEGE OF HIGHER EDUCATION**
Salethu, Maharajganj, Raebareli
- ⇒ **NEW STANDARD ACADEMY**
Super Market, Raebareli

Note: Admission open for B.A. and B.Sc. for 2023-24

Illuminating Global Education Through Indian Values

NEW STANDARD GROUP OF INSTITUTES



HOME ASSIGNMENT 2023



Name.....

Class -9(UP & CBSE) Sec.

Branch.....

Note:1- All the written work is to be done in the fair note book.

2- Prepare taught topics in all subject for test just on reopening of the school.

हिन्दी— (CBSE)

1. 'ईमानदारी का फल' विषय पर एक लघु कथा लिखिए।
2. नगर पालिका चुनाव के दौरान नगर में फैली अस्त-व्यस्तता के संबंध में अपने मित्र से की गई बातचीत को संवाद रूप में लिखिए।

हिन्दी— (UP Board)

1. गद्य एवं पद्य साहित्य का इतिहास कंठस्थ कीजिए।
2. शुल्क मुक्ति हेतु प्रधानाचार्य जी को पत्र लिखिए।
3. 'दीपदान' एकांकी को पढ़कर सारांश लिखिए।

ENGLISH-

- 1- Develop a story based on outlines. Also give an appropriate title to the story.
There was a joint family of six members including grandparents. It was the 75th birthday of the grandmother and the family planned to celebrate-----
- 2- Write a letter to your friend congratulating him on his success in the final exam.
- 3- Do exercises of tenses-
(Ex No.- 15-20) UP Board in fair notebook.
(Ex No.- 6 Pg.- 138-140) CBSE Board in book.
- 4- Determiners Ex.- 5, 6, 8 & 9(260-265) in book CBSE Board
Ex No.- 6-10 (Pg. no.- 247-249) UP Board.
(Ex No.- 6 Pg.- 138-140)

PHYSICS-

- 1- A bus starting from rest moves with a uniform acceleration from 0.1m/s^2 for 2 minutes find (a) speed required (b) the distance travelled.
- 2- A train is travelling at a speed of 90 km per hour breaks are applied on it to produce a uniform acceleration of -0.5m/s^2 . Find how far the train will go before it is brought to rest.
- 3- An athlete complete one round of the circular track of diameter 200 m in 40 second what will be the distance covered and the displacement at the end of 2 minute 20 second.
- 4- Drive equations of motion by graphical method.
- 5- A ball is gently drop from a height of 20 m if its velocity increases uniformly at the rate of 10 m/s^2 with what velocity will it strike the ground? After what time will it strike the ground?

CHEMISTRY-

- 1- Name the two gases which are supplied in compressed form in homes and hospitals.
- 2- What is dry ice?
- 3- CO_2 is a gas. Justify the given statement by two reasons.
- 4- Name SI unit of measuring temperature. The boiling point of water is 100°C under normal atmospheric pressure. Convert this temperature to SI units.
- 5- Give reasons for the following:-
(a) Gases fill up completely the vessel in which they are kept.
(b) Gases exert pressure on the walls of the containing vessel.
- 6- Name three states of matter. Which state of matter is rigid and why?

BIOLOGY-

- 1- Prepare taught syllabus.
- 2- You are looking at a sample under a light microscope and observe a new type of cell. You come to the conclusion that it is a bacterium and not a eukaryotic cell. What would you observe to come to this conclusion?
- 3- Write the function of different cell organelles and their discovery in tabular form on Chart Paper.
- 4- When you put a drop of ink in the water filled glass? What do you see? Explain the process.
- 5- If you are provided with some vegetables to cook, you generally add salt to the vegetables during the cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
- 6- What do you think would happen if our cells had the structure of prokaryotic cells?

SOCIAL SCIENCE -

- 1- Solve very short type questions of Chapter-1 (The Story of Village Palampur) and Chapter-2 (People as Resource) of Economics in notebook.
- 3- Practice map work of chapter 1 and 3 of Geography of political map of India. (Map related questions already given in notebook)

MATHS-

- 1- If $x^4 + \frac{1}{x^4} = 527$ then find the value of $x + \frac{1}{x}$.
- 2- Factorize:
(i) $a^2 + 2ab + b^2 - c^2$ (ii) $1 - 27a^3$
(iii) $2x^3 + 23x^2 + 8x - 33$ (iv) $x^3 + 3\sqrt{3}x + 6$
- 3- If $x^3 + 6x^2 + 4x + k$ is exactly divisible by $x+2$, find the value of k.
- 4- Find value of a and b so that the polynomial $x^3 - ax^2 - 13x + b$ has $(x-1)$ and $(x+3)$ as factors.

COMPUTER (CBSE)

Note: Students will write the answer of following questions in their fair note book.

- 1- List any five components of word processing window.
- 2- Describe the mobile phone as ICT tool.
- 3- What are the three broad areas influenced by Self-management?
- 4- How do people work on self-management through self-monitoring?
- 5- Give some applications of Internet.

COMPUTER (UP BOARD)

- 1- Explain the Brain of computer with its types also.
- 2- What is Operating System? Explain about Structure of Linux O/S?
- 3- Explain about positional number system with any two examples.
- 4- What are Networking Devices?

PHYSICAL EDUCATION (Physical Activity Trainer)

- 1- Write a paragraph on how environmental factors influence physical activity.
- 2- Write the various activities to cognitive skills.
- 3- Prepare a poster for an invitation of sports day.
- 4- Prepare a chart about the lesson plan.