



SARASWATI VIDYA MANDIR SR. SEC. SCHOOL
SECTOR-Q ALIGANJ LUCKNOW-226024



Class:- XI

Sub:- Hindi

Summer Holiday Homework:- 2023-2024

नोट:- निम्नांकित प्रश्नों के उत्तर व्याकरण कॉपी में लिखिए तथा सुलेख कार्य टेस्ट कॉपी में लिखिए।

1. **पत्र लेखन:-**
 1. अपने नगर विकास प्राधिकरण के सचिव को अपनी कॉलोनी के विकास के लिए पत्र लिखिए।
 2. अपने क्षेत्र में पेड़-पौधों के अनियंत्रित कटाव को रोकने के लिए अपने जिलाधिकारी को एक पत्र लिखिए।
2. **अनुच्छेद लेखन:-**
 1. बारिश का कोहराम।
 2. दूरदर्शन पर बहस।
3. **रिपोर्ट लेखन:-**
 1. अपने विद्यालय के वार्षिकोत्सव पर एक प्रतिवेदन तैयार कीजिए।
4. **रचनात्मक लेखन-**
 1. बेरोजगारी : एक समस्या।
 2. अनुशासन।
5. प्रतिदिन एक पेज सुलेख लिखिए।

प्रोजेक्ट वर्क:-

1. जवाहर लाल नेहरू और भवानी प्रसाद मिश्र जी का जीवन परिचय लिखते हुए चित्र बनाइये।
2. 'आजादी का अमृत महोत्सव' पर एक आलेख लिखिए।
3. अन्तर्राष्ट्रीय योग दिवस पर एक फीचर लिखिए।
4. आप कहीं घूमने गये हों तो वहाँ का यात्रा वृत्तान्त लिखिए।



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Class:- XI

Sub:- English

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1. Prepare any one topic for ASL Speech in correct Pronunciation and record it in your phone.
2. Write the topic in punch sheet and put it in file. Decorate the file.
3. Draft a Poster on any topic on General awareness on Chart / Punch it. Make it colourful.
4. Learn Question Answer of Chapter.
 - (i) The Portrait of Lady (Flamingo)
 - (ii) We're not afraid to die (Flamingo)
5. Read the chapters of snapshot in correct pronunciation and accent.
6. Write one quotation on a punch sheet in cursive writing. Colour it.
7. Write the following part of speech in copy and do related exercises of it.
 - (a) Pronoun :-
 - Definition
 - Types
 - Examples
 - (b) Verb :-
 - Definition
 - Types of Classification
 - Examples



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Class:- XI

Sub:- Maths

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Q.1 Prove that

$$\cos 4x = 1 - 2 \sin^2 x \cos^2 x$$

Q.2 Prove that

$$\sin 18^\circ = \frac{\sqrt{5}-1}{4}$$

Q.3 $\cos 6^\circ \cos 42^\circ \cos 66^\circ \cos 78^\circ = \frac{1}{16}$

Q.4 Prove that

$$\sin^2 72^\circ - \sin^2 60^\circ = \frac{\sqrt{5}-1}{8}$$

Q.5 Find the value of $\tan \frac{\pi}{8}$

Q.6 $\frac{\sin 3A}{\sin A} - \frac{\cos 3A}{\cos A} = 2$

Q.7 Prove that

$$\sin 12^\circ \sin 48^\circ \sin 54^\circ = \frac{1}{8}$$

Q.8 If $\tan \theta = \frac{a}{b}$

Prove that , $b \cos 2\theta + a \sin 2\theta = b$

Q.9 Find Domain and Range

(a) $f(x) = \frac{x^2+2x+1}{x^2-2x+12}$

(b) $f(x) = \frac{1}{(2x-3)(x+3)}$

(c) $f(x) = \sqrt{x-3}$

(d) Domain of the function

$$f(x) = \frac{1}{\sqrt{|x|-x}}$$

Q.10 $f(x) = x + 1/x$

then find $f(x)^3 + 3f(1/x)$

Q.11 Find Domain

$$f(x) = \sqrt{4-x} + \frac{1}{\sqrt{x^2-1}}$$

Q.12 $f(x) = 3 - x^2$, $f: \mathbf{R} \rightarrow \mathbf{R}$

Find $f(3) - f(4)$

Q.13 $f(x) = x^2 - 3x + 1$

$$f(2x) = ?$$

Q.14 $f(x) = (a-x^n)^{1/x}$

$$f[f(x)] = x$$

Q.15 Find Range of

$$1 + \cos 2x$$



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Class:- XI

Sub:- Physics

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Q.1 Write & Learn dimensions of different Physical Quantities Power, Work, Energy, Force, Area, Velocity, Time, Density, Volume, Pressure, Stress, Strain, modulus of elasticity, Gravitational constant, Acceleration, Acceleration due to Gravity, Coulomb's Constant, Momentum, Angle, Torque, Moment of Inertia, Surface Tension.

Q.2 Write & Learn all the formulas of moment of Inertia for different shaped body.

Q.3 Write & Learn the significant Rules and also state how many significant figures in following.

- | | | | |
|-----------|------------|---------------|-----------------------------|
| (i) 0.002 | (ii) 0.200 | (iii) 5.000 | (iv) 2.690×10^{-3} |
| (v) 5.05 | (vi) 505 | (vii) 5020.00 | (viii) 20000 |

Q.4 Define work, write its formula & Unit.

Q.5 What are Newton's Laws of motion state all the three laws of motion and Learn it.

Q.6 Make a Paper scale of least count-

- | | | | |
|------------|---------------|------------|-------------|
| (i) 0.2 cm | (ii) 0.005 cm | (iii) 1 cm | (iv) 1.5 cm |
|------------|---------------|------------|-------------|

Q.7 State Newton's Universal law of gravitation write its formula.

Q.8 Derive expression for equation of motion using graphical method.

Q.9 A Particle covers displacement $x = 4 + 3t^2 + 6t$ in time t sec Find.

- (i) Instantaneous velocity at $t = 2s$.
- (ii) Instantaneous acceleration at $t = 3s$
- (iii) Average Velocity b/w $t = 4s$ & $t = 3s$.

Q.10 Draw all the v-t graph, a -t graph & x-t graph.

Q.11 Write & Learn scalar & vector properties, scalar & vector product and their properties.

Q.12 If $\vec{a} = 3\vec{i} + 2\vec{j} + 5\vec{k}$ & $\vec{b} = 5\vec{i} - 2\vec{j} + 3\vec{k}$ and angle b/w vector \vec{a} & \vec{b} is 30° . Then Find

$\vec{a} \cdot \vec{b}$ and $\vec{a} \times \vec{b}$



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Class:- XI

Sub:- Chemistry

Summer Holiday Homework:- 2023-2024

- 1. Make a chart on different types of chemical reactions.(Combination , Decomposition, Displacement, Double Displacement reactions etc).**

- 2. Submit a project work . You can choose any one of the following topics.**
 - a) pH scale .**
 - b) Exothermic and endothermic reactions.**
 - c) Oxidation and reduction.**
 - d) Role of acids and bases in human life.**
 - e) Corrosion.**

Holiday Homework

Biology

Class 11

1. Read ch 3,4 and 5 and make 30 MCQ's from each chapter.
2. Prepare notes of ch .1,2 and 3(if incomplete).
3. Write the contribution of any two Indian scientists in the field of biology
4. Make an investigatory project on any topic from your syllabus.
(min. 15 pages).
5. Make a chart on any one of the following topics
 - a. Plant cell
 - b. Animal cell
 - c. Bacteriophage
 - d. Eye
 - e. Ear
 - f. Digestive or reproductive system of frog
6. Prepare a working model on any one of the following
 - a. Lung experiment
 - b. DNA model
 - c. Neuron
 - d. Heart
7. Prepare practical file of given specimen:
 - Bacteria
 - Spirogyra
 - Mushroom
 - Fern
 - Pine
 - one monocotyledonous plant
 - one dicotyledonous plant

- Amoeba
- Hydra
- Ascaris
- Leech
- Starfish
- Frog
- lizard



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Class:- XI

Sub:- Computer

Summer Holiday Homework:- 2023-2024

Activity –

1. Make a chart on primary and secondary storage devices such as RAM, ROM and Pen drive, CD, DVD, Hard Disc, Blue-ray Disc) with its important features.
2. Make a chart on Operating system with its features.

Copy Work –

Write Answers in the practical file. (Take one-page ruled and one-page blank practical file.)

1. What is cache memory? Why it is considered crucial for a microprocessor's performance?
2. What is Artificial Intelligence? What information does it have and how is its future computer program?
3. What functions are performed by ALU? Is it an independent unit? If not, which unit does ALU work in coordination with?
4. Make a table having decimal number from 0 to 50 and convert in Binary, octal and Hex-Decimal.
5. Write the steps to convert any binary number into Octal number and Hexa-Decimal number system.
6. Convert the following–
 - a. $(514)_8 = (?)_{10}$
 - b. $(220)_8 = (?)_2$
 - c. $(76F)_{16} = (?)_{10}$
 - d. $(4D9)_{16} = (?)_{10}$
 - e. $(11001010)_2 = (?)_{10}$
 - f. $(1010111)_2 = (?)_{10}$
7. What are basic logic gates? Explain with diagram and Truth Table.
8. Explain with diagram and Truth Table – (i) NAND gate (ii) NOR gate



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Class:- XI

Sub:- Accountancy

Summer Holiday Homework:- 2023-2024

Accountancy

Source Documents/ Voucher of Accounting Make file (One side ruled page) with pictures.

Business Studies

- What is Bank
- Classification of Bank
- Types of Bank Account
- Function of Bank.
- Write name 5 Public & Private Bank.
- Types of Industries.
- Insurance :- Types & Need.



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Class:- XI

Sub:- Economics

Summer Holiday Homework:- 2023-2024

Q.1 Write Five examples each of 'Quantitative variable and qualitative Variable'. Quantitative should be the well-known terms of Economics, like Production of Wheat in India over the last 10 Years.

Q.2 Fill in the details of 10 students using the following Model questionnaire.

Example of an Ideal Questionnaire

Objective of this questionnaire is to know about the monthly income and expenditure of the 10+2 students living in the hostels. You are requested to fill in this questionnaire, and return at your earliest convenience. Information furnished in this questionnaire will be kept strictly confidential. The information will be used only for the present investigation.

1. Student's Name
2. Age
3. FacultyArt/Commerce/Science
4. Name of the School/College
5. Father's name and address
6. Father's OccupationIncome
7. Income (if any) of other members in the family
8. Monthly income received by the student
 - (i) From the family.....
 - (ii) Personal Earning.....
 - (iii) Scholarship
 - (iv) Others
9. Monthly Expenditure of the Student

Items of Expenditure	Amount of Expenditure
(i) School/College fee
(ii) Stationery
(iii) Books
(iv) Conveyance

- (v) Hostel expenses
- (vi) Entertainment
- (vii) Other items (specify)

10. Is your monthly income enough for you ? Yes No.....

11. If your monthly income is not enough, how do you propose to increase it?

12. Can you save anything from your monthly income? If yes, under which of the above-noted heads of expenditure can you save and how much?

Q.3 Solve following Questions.

(i) $\left(\frac{1}{4} + \frac{1}{8}\right)$ of 12

(ii) $18 + (14 - 3 \times 4)$

(iii) $1600 \div 9 \{ (14-4) + (20-8) \}$

(iv) $6 + [2+ 8 - 9 \{ 4 \times 2 - 3 + (2 \times 4 \div \overline{2 + 2}) \}]$



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Class:- XI

Sub:- Physical Education

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Make a Project file on yoga (Punch File)

Contents-

*** Meaning of Yoga**

*** Elements of Yoga**

*** 5 sitting Asanas (Name of Asana, Figure, Process , Benefits)**

*** 5 standing Asanas. " "**

*** 5 laying Asanas. " "**