

Class XII Subject- Hindi

1. औपचारिक और अनौपचारिक पत्रों में किन-किन बातों का ध्यान रखा जाता है? अथवा पत्र लेखन के मुख्य अंग कौन-कौन से हैं?
2. अनौपचारिक पत्रों के लेखन में किसे, क्या सम्बोधन और अभिवादन तथा पत्र के समापन में क्या लिखना आवश्यक होता है?
3. दो औपचारिक पत्र और दो अनौपचारिक पत्र लिखिए।
4. लेखिका महादेवी वर्मा का जीवन परिचय एवं साहित्यिक रचनाओं का उल्लेख कीजिए।
5. कवि हरिवंश राय बच्चन की कविता मधुशाला को इंटरनेट के माध्यम से सुनिये और संकलन कीजिए।
6. प्रसिद्ध गायिका लता मंगेशकर का परिचय और उनकी गीत साधना के संबंध में आलेख लिखिए।
7. संचार का शक्तिशाली माध्यम: इंटरनेट और बदलते युग में नारी की भूमिका पर निबंध लिखिए।
8. एक समाचार पत्र के प्रकाशन में किस-किस की क्या क्या भूमिका हो सकती है अपने अनुभव के आधार पर लिखिए।
9. हिन्दी और अंग्रेजी में प्रकाशित होने वाले राष्ट्रीय स्तर के प्रमुख समाचार पत्र और पत्रिकाओं के नाम लिखिए।
10. वितान में संकलित कहानी सिल्वर वैडिंग का सारांश लिखिए।

Class XII CLASS – XII (ENGLISH CORE)

1. Select two articles/write-ups/Reports from daily newspapers and make notes on them using proper format and using abbreviations. Also write summary within 80 words. The original newspaper cutting **MUST** be pasted in the Homework notebook. Each student must use different articles/write-ups/Reports for Note-Making & Summary Writing.
2. You are the President of your school's Theatre Club. Your club is organizing a play '*The Miser*' to help the victims of earthquake. Design a poster informing the students about this play. Invent necessary details.
3. You are Regional Sales Manager of a reputed pharmaceutical company. You need Science graduates with at least 2 years experience and less than 28 years of age, as medical representatives for your company. Draft a suitable advertisement in not more than 50 words to be published in the Situation Vacant column of a daily newspaper.
4. The Students' Council of your school is going to organize an excursion to Shimla for students of class XII during the Summer Vacation. As President of the council, write a notice in not more than fifty words informing the students about this excursion. Sign yourself as Ravi / Raveena.
5. You are Rahul, the Head boy of Creative Public School, Delhi. Recently your school hosted the Regional Level CBSE Science Exhibition. Write a report of this event for your school newsletter in about 175-200 words.
6. Recently a group of students of your class made a visit to a place of historical importance nearby your town. Write a detailed report about your experience in 175-200 words to be published in the School Magazine.
7. You are Nitin/Natasha a student of Class XII at K.P.N. Public School Faridabad. A student is required to cope with lot of pressure in today's competitive environment. Write a letter to the editor of a national daily highlighting the increasing stress faced by students and suggest ways to combat the same.
8. You are Apoorva, resident of 29, Rajendra Nagar, Lucknow. You are given the responsibility of fixing the venue for your sister's wedding. Write a letter in 125 words, to the Manager of a five-star hotel for booking the wedding hall for wedding reception. Also inquire about the facilities, catering, decoration, other charges etc.
9. You are Tushar Garg, residing at 100, Pushpanjali Apartments, Indore. You bought an LCD television from M/S Sagar Electronics, Bada Bazar, Indore. It does not function properly. Write a letter to the Sales Manager of the shop, complaining about the defect and seeking immediate replacement or repair, as necessary.
10. It is the habit of media to sensationalize the news to gain attention and to raise their viewership. The private affairs of the celebrities and unnecessary issues are generally highlighted. Write an article on the topic in 150-200 words.
11. Teenagers today are getting hooked on to the latest gadgets. Write a speech to be delivered in your school's morning assembly on '*The advantages of technology versus its adverse effects*'. 'You are Sharan/Shalini' Use the input given below: (200 words)
Gadgets : mobiles, ipods, computers, Greater affluence : easy availability, Impact on health : sedentary lifestyle, obesity, eating habits; Impact on academic performance, Social impact : absence of social interaction, Improved communication : global vision, easy connectivity, faster information exchange.

Class- XII Subject- Mathematics

1. for $A = \{1, 2, 3\}$, define a relation R in the set A as follows:
 $R = \{(1, 1), (2, 2), (3, 3), (1, 3)\}$
Write the ordered pairs to be added to R to make it the smallest equivalence relation.
2. Let L be the set of all lines in a plane and R be the relation in L defined as
 $R = \{(L_1, L_2) \mid L_1 \text{ is perpendicular to } L_2\}$
Show that R is symmetric but neither reflexive nor transitive.
3. An integer m is related to another integer n if m is integral multiple of n, check if relation is reflexive, symmetric and transitive.
4. Show that the given relation R is defined on the Set $A = \{x \in \mathbb{Z}, 0 \leq x \leq 12\}$ and $R = \{(a, b) \mid (a - b) \text{ is multiple of } 4, a, b \in A\}$
5. Let $A = \{-2, -1, 0, 1, 2\}$ & $f = \{x, X^n\} \mid x \in A$ show that
 $f: A \rightarrow A$ is neither one-one nor onto.
6. Let $f: \mathbb{R} - \{\frac{3}{5}\} \rightarrow \mathbb{R} - \{\frac{3}{5}\}$ defined by $f(x) = \{\frac{3x+2}{5x-3}\}$ find f^{-1} , if it exists.
7. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^3 - 1$ then prove that f^{-1} exists and find f^{-1} , Hence find $f^{-1}(26)$ and $f^{-1}(-9)$
8. Show that $f: \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = e^x$ is one - one but not onto.

9. Let $f: W \rightarrow W$ be defined as $f(n) = \begin{cases} n-1 & \text{if } n \text{ is odd} \\ n+1 & \text{if } n \text{ is even} \end{cases}$ show that f is invertible and find inverse of f . Here w is the set of all whole num.

10. Let $A = \{-1, 0, 1, 2\}$, $B = \{-4, -2, 0, 2\}$ and $f, g: A \rightarrow B$ be functions defined by $f(x) = x^2 - x$, $x \in A$ and $g(x) = 2|x - \frac{1}{2}| - 1$, $x \in A$ find $f \circ g$, $g \circ f$ and show that $f = g = g \circ f$

11. Determine whether the function $*$ on Q defined by
 $a * b = a + ab$ is a binary operation or not.

If yes determine whether it is cumulative and associative. Find the identity (if exists). Find all the invertible element (if any) & their inverse.

12. Determine whether the function $*$ on $P(X)$ is defined by

$A * B = A \cap B$ where $P(X)$ determine the power set of a non empty set X , is a binary operation or not. If yes, determine whether it is cumulative and associative. Find the identity (if exists). Find all the invertible element (if any) & their inverse.

13. Draw the graph of all inverse trigonometric functions & Write their principle value branches.

14. Derive the identities:

$$\sin^{-1}(-x) = -\sin^{-1} x, \forall x \in [-1, 1]$$

$$\operatorname{Cosec}^{-1}(-x) = -\operatorname{cosec}^{-1}(x), \forall x \in \mathbb{R} - (-1, 1)$$

$$\cos^{-1}(-x) = \pi - \cos^{-1} X, \forall x \in [-1, 1]$$

$$\sec^{-1}(-x) = \pi - \sec^{-1} X, \forall x \in \mathbb{R} - (-1, 1)$$

$$\tan^{-1}(-x) = -\tan^{-1} x, \forall x \in \mathbb{R}$$

$$\cot^{-1}(-x) = \pi - \cot^{-1} X, \forall x \in \mathbb{R}$$

15. Find the principal value of the following

(i) $\sin^{-1}(\frac{-1}{2})$ (ii) $\sin^{-1}(\frac{\sqrt{3}}{2})$ (iii) $\sin^{-1}(\frac{-1}{\sqrt{2}})$ (iv) $\cos^{-1}(\frac{\sqrt{3}}{2})$

(V) $\cos^{-1}(\frac{-1}{\sqrt{2}})$ (Vi) $\cos^{-1}(\frac{-1}{2})$ (vii) $\sec^{-1}(2)$ (viii) $\sec^{-1}(-\frac{2}{\sqrt{3}})$

(ix) $\tan^{-1}(\frac{1}{\sqrt{3}})$ (X) $\tan^{-1}(-1)$ (Xi) $\cot^{-1}(1)$ (Xii) $\cot^{-1}(-\sqrt{2})$

X(iii) $\operatorname{cosec}^{-1}(-\frac{2}{\sqrt{3}})$

Class- XII A & B Subject- Physics

1. Revision of unit -1 Electrostatics

Chap - I Electric Charge and fields

Chap - II Electrostatic Potential and capacitance

Some extra numerical problems and HOTS from any reference book, value based questions from both chapters.

2. Practical Work:-

Write all experiment in practical notebook any 6 activities (3 from each section). Suggested by your teacher.

Class- XII A & B Subject- Chemistry

1. Make an investigatory project on any topic from the list of CBSE Project.

2. Complete all NCERT questions of chapter:- Solid State & Solution.

3. Do. Practice on numerical problems related to solid state & solution.

4. Prepare 20 extra - question from text book and write their answer. (Short answer type) (solid state & solution.)

Class- XII Subject- Biology

1. **Draw labelled diagrams:-**

Chapter -1 Reproduction in organisms

(a) Budding in Yeast (b) Binary fission in Amoeba

(b) Types of Gametes (i) Isogametes (ii) Anisogametes

Chapter -2 Reproduction in Flowering Plants

(a) Enlarge View of a Microsporangium showing wall layers

(b) Anisotropous Ovule (c) Fertilized Embryo sac

(d) Diagrammatic representation of development of an Embryo sac

(e) Stages in the Development of Dicot Embryo

(f) L.S. of Monocot Seed (g) L.S. of grass Embryo

Chapter - 3 Human Reproduction

(a) Male Reproduction System (b) Female Reproduction System

(c) Seminiferous Tubules Sectional view (d) Structure of Sperm

(e) Sectional view of ovary

(f) Schematic representation of Oogenesis & Spermatogenesis

(g) Diagrammatic representation of various events during Menstrual Cycle

(h) Fertilization, Transport of Ovum, Passage of growing embryo in Fallopian Tube.

2. Define/ Explain the following terms:-

(a) Juvenile Phase

(b) Oestrus Cycle

(c) Parthenogenesis

(d) Pericarp

(e) Perisperm

3. Write answer of the question given in the textbook of Chapter 1 & 2.

Class- XII Subject-History

Q1. "Our knowledge about the Indus valley civilization is poorer than that of other civilization." Explain it by your arguments.

"सिंधु घाटी की सभ्यता के बारे में हमारे ज्ञान की तुलना में गरीब हैं अन्य सभ्यताएँ।" अपने तर्कों से यह समझाइये।

Q2. What were the differences in the techniques adapted by Marcell & Wheeler in studying Harappan Civilization.?

हड़प्पा सभ्यता के अध्ययन के दौरान मार्शल और कनिंघम के द्वारा अपनाई गई तकनीकी में क्या अंतर था?

Q3. "Burials is a better source to trace social differences prevalent in the Harrapan Civilization." Discuss.

'शवाधान हड़प्पा सभ्यता में व्याप्त सामाजिक विषमताओं को समझने का एक बेहतर स्रोत है', व्याख्या करें।

Q4. How can you say that the Harrapan Civilization was an urban one?

आप यह कैसे कह सकते हैं कि हड़प्पा सभ्यता एक नगरीय सभ्यता थी?

Q5. Write a note on the agricultural technology of Harrapan.

हड़प्पाई लोगों की कृषि प्रौद्योगिकी पर एक लेख लिखें।

Q6. Discuss how archaeologist reconstruct the past.

चर्चा कीजिए कि पुरातत्वविद् किस प्रकार अतीत का पुर्ननिर्माण करते हैं।

Q7. Why 6th Century BCE often considered as a major turning point in Indian History .

छठी शताब्दी ई.पू. को प्रारंभिक भारतीय इतिहास में एक महत्वपूर्ण परिवर्तनकारी काल क्यों कहा जाता है?

Q8. In Which languages and script Ashokan inscriptions were written?

अशोक के अभिलेख किन-किन भाषाओं व लिपियों में लिखे जाते थे?

Q9. Explain main features of Ashoka's Dhamma?

अशोक के धम्म के बारे में लिखें?

Q10. Important changes agriculture during the period between 600 BCE to 600 CE.

छठी शताब्दी ई.पू. से छठी सदी ई. तक कृषि क्षेत्र में हुए मुख्य परिवर्तनों का उल्लेख कीजिए।

Q11. Discuss the main features of Mauryan administration.

मौर्य प्रशासन की प्रमुख विशेषताओं पर चर्चा कीजिए।

Q12. Discuss the nation of kings that developed in the post Mauryan period.

उत्तर मौर्य काल में विकसित राजत्व के विचारों की चर्चा कीजिए।

Class- XII-D Subject- Geo.

1. Complete and revise all question of Chapter No. 1- Human Geography – Nature & Scope, 02-Population of the World – Growth & Density & 03. Population Composition as a revision work.

2. Study thoroughly Chapter No. 04. Human Development, 09. International trade of Part – I and Chapter No. 09. Planning in India- Idea of Sustainable development of part –II and complete all questions in all respect of these chapters.

3. Make 02 plain copies containing pages 100 each: 01 for part -1 Map work copy and other for Part – II Map work copy and draw/complete all maps shown in all chapters of Part – I and Part – II given in the last exercise questions.

Class- XII-Accountancy.

Solve 2 numerals of each of the following topic

1 Calculation of interest on drawing made by partners

2 Calculation of interest on capital charges in between

3 P/L App A/C

4 Partners Capital A/c fixed and fluctuating method

5 Past adjustment entry

Single error

Multiple error

6 Guarantee to a partner

7 Complete numerical

Class- XII-Accountancy.

Learn Question and answer chapter no.1 complete notes upto chapter no2

Project Work

Complete a project work on principles of management as per instruction given