

RAHUL MODEL SENIOR SECONDARY PUBLIC SCHOOL
Recognised & Affiliated to CBSE
Railway Road, Sadh Nagar-II, Palam Colony, New Delhi

SUMMER HOLIDAY HOMEWORK
CLASS – XII HUMANITIES

ENGLISH

1. Write Notices on the following occasions (one of each category) (3x4=12 Marks)
(Do this in English notebook)

- a. Tours
- b. Sports
- c. Cultural / Extra- curricular activities
- d. Appeals

2. Write articles on the following topics (Word-limit 150- 200) (4x4=16 Marks)
(Do this in English notebook)

- a. My vision of future India
- b. Digital education in India
- c. Women safety in India
- d. 50- years of Earth Day

3. Letter to the Editor (150-200 words) (Do this English notebook) (4x4=16 Marks)

- a. Address topics like rising cybercrime,
- b. the need to ban plastic bags,
- c. increasing traffic jams,
- d. neglect of historical monuments.

4. Advertisements & Invitations (Do this in English notebook) (1x3= 3 Marks)

Design a colourful, creative, handwritten advertisement for a local summer event or an invitation for a fictitious launch party.

5. Make a collage- highlights the writers and poets featured in CBSE class 12 curriculum (Flamingo and vistas), incorporating their key literary contributions. (1x3= 3 Marks)

(Do this in A3 size sheet)

HISTORY

ASSIGNMENT

SECTION A – MULTIPLE ASSESSMENT (1 × 10 = 10 Marks)

Q1. Choose the correct answer.

1. The Great Bath was discovered at:

- | | |
|----------------|---------------|
| a) Lothal | b) Harappa |
| c) Mohenjodaro | d) Kalibangan |

2. The script of the Harappan civilization remains:

- | | |
|-----------------|----------------------|
| a) Decoded | b) Partially decoded |
| c) Undeciphered | d) Sanskrit based |

3. Who composed the *Mahabharata*?

- a) Kalidasa b) Valmiki c) Ved Vyasa d) Panini

4. Ashoka propagated the policy of:

- a) Militarism b) Dhamma c) Expansionism d) Isolation

5. The land grants to Brahmanas were known as:

- a) Janapadas b) Agraharas c) Nigamas d) Varnas

6. Which Buddhist structure contains relics?

- a) Vihara b) Chaitya c) Stupa d) Mandapa

7. The Harappans traded extensively with:

- a) China b) Mesopotamia c) Greece d) Rome

8. The first Buddhist Council was held at:

- a) Vaishali b) Rajagriha c) Pataliputra d) Taxila

9. "Janapada" literally means:

- a) Place of sacrifice b) Place where the king lives
c) Foothold of a tribe d) Agricultural land

10. Assertion (A): Megasthenes wrote *Indica*.

Reason (R): He visited India during Chandragupta Maurya's reign.

- a) Both A and R are true and R is the correct explanation of A
b) Both A and R are true but R is not the correct explanation of A
c) A is true but R is false
d) A is false but R is true

SECTION B – SHORT ANSWER QUESTIONS (5 × 2 = 10 Marks)

Q2. Mention any two important features of the drainage system of the Harappan civilization.

Q3. Why were inscriptions important sources for historians?

Q4. State any two teachings of Jainism.

Q5. What was the significance of the Sabha and Samiti in early Indian society?

Q6. Differentiate between Vihara and Chaitya.

SECTION C – SOURCE-BASED QUESTIONS (2 × 4 = 8 Marks)

Q7. Read the source carefully and answer the questions that follow:

"The most unique feature of the Harappan civilization was the planned urban centres with roads cutting across one another at right angles."

Questions:

- a) Name any one major Harappan city. (1)
b) Mention one feature of town planning. (1)
c) Why do historians call Harappan cities 'planned cities'? (2)

Q8. Read the passage carefully:

"Ashoka declared that all religions should reside everywhere, for all of them desire self-control and purity of mind."

Questions:

- a) Name the ruler referred to in the passage. (1)
b) What policy did he propagate? (1)
c) Explain any two ways through which he spread his message. (2)

SECTION D – LONG ANSWER QUESTIONS (2 × 6 = 12 Marks)

Q9. Explain the major features of the Harappan economy.

OR

Describe the role of craft production in the Harappan civilization.

Q10. Discuss the teachings of Buddhism and explain why it became popular in ancient India.

OR

Explain the social structure described in the *Mahabharata*.

SECTION E – MAP (5 Marks)

Q11. On the outline map of India, locate and label the following:

1. Harappa
2. Mohenjodaro
3. Sarnath
4. Taxila
5. Vaishali

SECTION F – SUBJECT ENRICHMENT ACTIVITY (5 Marks)

Q12. Activity Work

Topic:

“Comparative Study of Buddhism and Jainism”

Instructions:

- Prepare a chart/project file comparing:
 - Founder
 - Symbols
 - Main teachings
 - Spread
 - Similarities and differences
- Include pictures/maps wherever possible.

ECONOMICS

I. Answer the following questions in 60-70 words-

(3 x 5 = 15)

1. During the colonial period the agricultural sector showed massive stagnation. Do you agree with the given statement? Justify your answer with valid arguments.
- 2, Explain structural composition and structural change.
3. Marginal farmers are subsistence farmers. Do you agree?
4. Define brain drain and explain why it is considered a significant restricting human capital formation in India?

5. There exists positive correlation between human capital formation and economic growth of a nation. Explain.

II. Answer the following questions in 70-80 words.

(4 x 4 = 16)

1. What is difference between stock and flow?
2. What are bad inflect on agriculture?
3. What is difference between macro and micro economics?
4. Distinguish between the following:
 - (a) Bilateral and multilateral sale
 - (b) Tariff and non-tariff barriers.

III. Answer the following in 100-125 words.

1. India is often called at outsourcing destination of the world. Discuss the prime reasons for this name given to India.
2. Explain two sector model of economy with the help of a diagram.
3. Money is medium of exhaust.
Explain the evolution of money with example.
4. Explain policy strategies promoting globalisation of the Indian Economy.
5. Solve economics questions paper of PT-1

POLITICAL SCIENCE

ASSIGNMENT

1. Write a note on the Commonwealth of Independent States(CIS). (3)
2. How did shock therapy destroy social welfare system of Russia? (3)
3. "After the disintegration of Soviet Union India has maintained good relations with all the new independent countries, but the most cordial relations are still there between Russia and India" Justify the statement with two examples. (3)
4. Describe any four consequences of 'Shock Therapy'. (3)
5. Discuss the developments that escalated the crises within the USSR that hastened its disintegration. (3)
6. "In recent years, India has paid adequate attention to ASEAN." Give two points to justify the statement. (3)
7. What is ASEAN vision 2020? (3)
8. Mention any six steps taken by China to improve its Economy. (3)
9. How has the European Union evolved to be a supranational organisation? What are its limitations? (3)
10. What makes the European Union a highly influential regional organisation? (3)
11. Name the pillars and objectives of ASEAN Community. (3)
12. Compare the European Union with ASEAN. (3)
13. Why do you think India is now considered as an important centre of power? (3)
14. Describe any three features of Indian Nuclear Policy. (3)

15. Explain the role played by India in maintaining Agro Asian Unity. (3)
16. Describe briefly the composition and five functions of the planning commission of India. (3)
17. Which model of modern development were there before Indian on the eve of Independence? Which model did Indian decide to choose and why? (2)

Note:-

- Solve the question paper of PT-1 in your text copy.
- Do all the questions in your notebook.

MATHEMATICS

Q01. If A, B and C are square matrices of order 3 and $|BC| = 2|A|$, then find $|2A^{-1}BC|$.

OR

If $A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 5 \end{bmatrix}^{-1}$, then find matrix A.

Q02. Let A(1, 3), B(0, 0) and C(k, 0). Using determinants, find k when the area of ΔABC is 3 square units.

Q03. If $\begin{vmatrix} x & \sin \theta & \cos \theta \\ -\sin \theta & -x & 1 \\ \cos \theta & 1 & x \end{vmatrix} = 8$, then write the value of x, $x \in \mathbb{R}$.

Q04. If $f(x) = \begin{vmatrix} a & -1 & 0 \\ ax & a & -1 \\ ax^2 & ax & a \end{vmatrix}$, then find $f'(x)$.

Q05. Find $|3AB|$, if $A = \begin{bmatrix} 2 & 5 \\ 1 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 3 \\ 4 & 2 \end{bmatrix}$.

Q06. If A, B and C are angles of a triangle, then find the value of $\begin{vmatrix} \sin(A+B+C) & \sin B & \cos C \\ -\sin B & 0 & \tan A \\ \cos(A+B) & -\tan A & 0 \end{vmatrix}$.

Q07. If $A = \begin{bmatrix} 2 & 1 & -1 \\ 3 & 1 & -2 \\ 1 & 0 & -1 \end{bmatrix}$ such that $AB = BA = O$, then find B; when it is given that B is non-zero matrix.

OR

If $A = \begin{bmatrix} 5 & 0 & 4 \\ 2 & 3 & 2 \\ 1 & 2 & 1 \end{bmatrix}$ and $B^{-1} = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$, find $(AB)^{-1}$. Also, find $|(AB)^{-1}|$.

Q08. CASE STUDY : A scholarship is a sum of money provided to a student to help him or her pay for education. Some students are granted scholarships based on their academic achievements, while others are rewarded based on their financial needs.

Every year a school offers scholarships to girl children and meritorious achievers based on certain criteria. In the session 2022-23, the school offered monthly scholarship of ₹3000 each to some girl students and ₹4000 each to meritorious achievers in academics as well as sports.



In all, 50 students were given the scholarships and monthly expenditure incurred by the school on scholarships was ₹180000.

Based on the above information, answer the following questions.

- (i) Express the given information algebraically using matrices.
- (ii) Check whether the system of matrix equations so obtained is consistent or not.
- (iii) Find the number of scholarships of each kind given by the school, using matrices.
- (iv) Had the amount of scholarship given to each girl child and meritorious student been interchanged, what would be the monthly expenditure incurred by the school?

Q09. If $A = \begin{bmatrix} 1 & 2 & 1 \\ 1 & 0 & 3 \\ 2 & -3 & 0 \end{bmatrix}$, find A^{-1} .

Using the above obtained inverse of matrix A, solve the following system of equations :
 $x + 2y + z = 7$, $x + 3z = 11$, $2x - 3y = 1$.

Q10. If $A = \begin{bmatrix} 1 & -1 \\ 2 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 0 & 1 \\ 2 & 4 \end{bmatrix}$, $C = \begin{bmatrix} -1 & 2 \\ 1 & -4 \end{bmatrix}$ and $AB - CD = O$ then, find the matrix D.

OR

Find the product $\begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix} \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$.

Hence, solve the given system of equations : $x - y = 3$, $2x + 3y + 4z = 17$, $y + 2z = 7$.

Topics - Inverse Trig. Functions

Q01. Find the domain of $f(x) = \sin^{-1}(3x - 4) + \cos^{-1} x$. Also, find the range of $f(x)$.

Q02. Draw the graph of $y = \cos^{-1} x$, where $x \in \left[-1, \frac{1}{2}\right]$. Also, write its range.

Q03. Using principal values, find the value of $(m + n)$, where $m = 4 \sin^{-1}\left(-\frac{\sqrt{2}}{2}\right) + 2 \cot^{-1}(-1) - \sec^{-1}\left(\frac{2}{\sqrt{3}}\right)$

and $n = \tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right)$.

Q04. Using principal values, find the value of $\tan^{-1}\left(\tan \frac{12\pi}{11}\right) + \sin^{-1}\left(\sin \frac{9\pi}{10}\right)$.

Q05. Find the value of $2 \sin^{-1} x - 3 \cos^{-1} x$, if $x^2 + 2x + 1 = 0$.

Q06. Find the real solutions of the equation : $\tan^{-1} \sqrt{x(x+1)} + \sin^{-1} \sqrt{x^2 + x + 1} = \frac{\pi}{2}$.

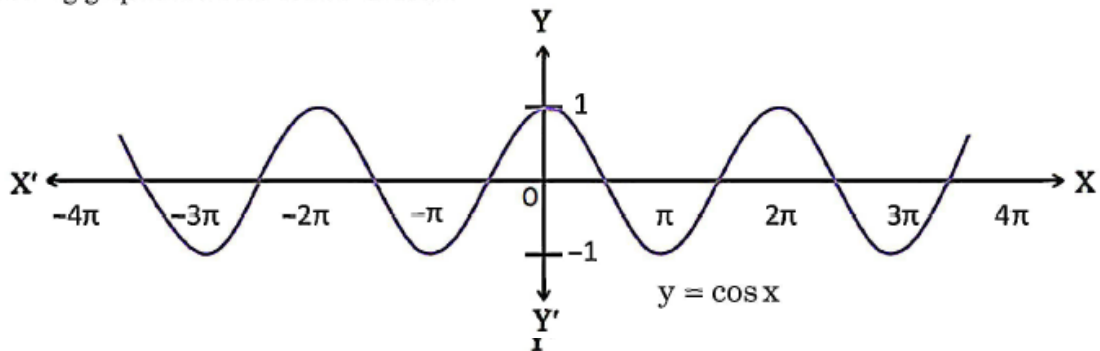
Q07. Express $\tan^{-1}\left(\frac{\cos x}{1-\sin x}\right)$, $-\frac{\pi}{2} < x < \frac{\pi}{2}$ in the simplest form.

OR

Simplify : $\cos^{-1} x + \cos^{-1}\left[\frac{x}{2} + \frac{\sqrt{3-3x^2}}{2}\right]$; $\frac{1}{2} \leq x \leq 1$.

Q08. **PASSAGE BASED QUESTION :** If a function $f : X \rightarrow Y$ defined as $f(x) = y$ is one-one and onto, then we can define a unique function $g : Y \rightarrow X$ such that $g(y) = x$, where $x \in X$ and $y = f(x)$, $y \in Y$. Function g is called the inverse of f .

The domain of cosine function is \mathbb{R} and function cosine: $\mathbb{R} \rightarrow \mathbb{R}$ is neither one-one nor onto. The following graph shows the cosine function.



Let cosine function be defined from set A to $[-1, 1]$ such that inverse of cosine function exists, i.e., $\cos^{-1} x$ is defined from $[-1, 1]$ to A .

On the basis of above information, answer the following questions.

(i) If A is the interval other than principal value branch, give an example of one such interval.

(ii) If $\cos^{-1} x$ is defined from the interval $[-1, 1]$ to its principal value branch, then find the value of $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right) - \cos^{-1}(-1)$.

(iii) Find the domain of $f(x) = 2 \cos^{-1}(1-x)$.

(iv) Find the range of $f(x) = 2 \cos^{-1}(1-x)$, if $x \in [0, 1]$.

Q09. Find the interval, in which $\cos^{-1} x > \sin^{-1} x$.

Q10. If $\cos^{-1} x + \cos^{-1} y + \cos^{-1} z = \pi$, then prove that $x^2 + y^2 + z^2 + 2xyz = 1$.

OR

Simplify : $\cot^{-1}\left[\frac{1}{\sqrt{x^2-1}}\right]$, $x < -1$.

PHYSICAL EDUCATION

1. CWSN games (5-7 pages)
2. Any one Olympic Games (8-10 pages)
3. Yoga Asana (Any 10)

Note:

Do all the work in Project File (Lab Manual)

हिंदी

प्रश्न 1 निम्न विषयों पर रचनात्मक लेख लिखिए।

(15)

- (i) खेलों के क्षेत्र में उभरता भारत
- (ii) अनेक देशों में आपसी युद्ध के कारण, अर्थव्यवस्था पर विश्वव्यापी असर।
- (iii) विद्यालय में स्वच्छता अभियान

प्रश्न 2 (क) रेडियो समाचार लेखन में किन बुनियादी बातों का ध्यान आवश्यक होता है?

(3)

(ख) मुद्रित माध्यमों की विशेषताएँ बताइए।

(2)

(ग) इंटरनेट पत्रकारिता की खूबियों और कमियों का उल्लेख कीजिए।

(3)

प्रश्न 3 निम्नलिखित प्रश्नों के उत्तर दीजिए -

(2 x 3 = 6)

(क) 'प्रेमधन की छाया-स्मृति' पाठ में रामचंद्र शुक्ल ने चौधरी साहब के व्यक्तित्व के किन पहलुओं का वर्णन किया है?

(ख) 'बालक बच गया' प्रसंग में 'जीवित वृक्ष के हरे पत्तों का मर्मर' किसे कहा गया है? उसे सुनकर लेखक को कैसा लगा ?

(ग) 'आँखों देखा ढेला अच्छा ही होना चाहिए लाखों कोस को तेज पिंड से'। 'ढेले चुन लो' से उद्धृत प्रस्तुत पंक्ति में निहित व्यंग्य स्पष्ट कीजिए।

प्रश्न 4 निम्नलिखित प्रश्नों के उत्तर दीजिए -

(2 x 3 = 6)

(क) 'सरोज स्मृति' कविता का प्रतिपाद्य लिखिए।

(ख) 'भरत-राम का प्रेम' कविता में राम के स्वभाव की किन विशेषताओं की ओर संकेत किया गया है?

(ग) 'रहि चकि चित्रलिखी-सी' पंक्ति के संदर्भ में राम के वियोग से माता कौशल्या की मनः स्थिति का वर्णन कीजिए।

प्रश्न 5 निम्नलिखित प्रश्नों के उत्तर दीजिए -

(5 x 2 = 10)

(क) प्रेमचंद के विषय में अपने विचार व्यक्त कीजिए।

(ख) 'सूरदास की झोपड़ी' पाठ के आधार पर तत्कालीन समाज में नारी की स्थिति का वर्णन कीजिए। आज उनकी स्थिति में क्या अंतर है?

क्रियाकलाप

- जनसंचार के माध्यमों को चार्ट अपर दर्शाकर उनका महत्व भी बताइए।

(5)

नोट:

सभी प्रश्न कॉपी में करने हैं।