

## **HOLIDAY HOMEWORK FOR NURSERY CLASS**

Written- English and Maths. Get 5-5 Photo copies of each page and do practice. G.K--- Revise Fruits, vegetables, wild animals and Domestic animals. Rhymes-- Learn Hindi and English rhymes of April and May. Conversation-- 1. What is your name? 2. What is the name of your school? 3. Who is your class teacher? 4. Where do you live? 5. In which class do you study? 6. What is the shape of the Sun? 7. How many days in a week?

## **holiday homework for LKG CLASS**

During Summer vacation children spend maximum time with their parent. So here are some guidelines that will help parents and children to enjoy the summer break while learning and playing. Take your child for morning walk, so they can enjoy beauty of nature. Try to speak small sentences in English with children and encourage them for the same. English : Practice 5 pages of each letter and each topic. (Whatever is done in class notebook) in separate two in one notebook. ( Write the name of child on that notebook) Maths: Practice 5 pages of each topic(Whatever is done in class notebook) in separate two in one notebook. ( Write the name of child on that notebook) Rhymes: Learn pages 4,6,8,10 G.K: Learn and read pages 3 to 14 Learn the Story " Two Ants"

## **U.K.G HOLIDAY HOME WORK**

English:

1. Write and learn Rhyming words, fruits name and colors name (5 times).
2. Write a to z (small) in cursive writing book.

3. Learn any one English rhymes out of syllabus

Maths :

1. Do write in words (11-20) (5 times)
2. Do addition sum(single digits) (any 20)
3. Workbook pages—5 to 29,33,36,40,43,44,45 and 47.
4. Learn table of 2 to 3 daily.

E.V.S:

1. Do pages-22 to 24,26 to 28,31 to 34,38,40,44 and 45

Punjabi:

1. Do ਊ to ਝ (5 times)

Note:

Do holiday homework in three in one separate notebook.

# HOLIDAYS HOME WORK

## CLASS – I

SUBJECT	HOME WORK
ENGLISH	<ol style="list-style-type: none"><li>(1) Learn question answers, dictation words, word meanings, make sentences of lesson 2, 3&amp;5</li><li>(2) Write 15 singular / plural (s or es)</li><li>(3) Learn poems – My prayer, Come out to play, Springtime magic, The pencil</li><li>(4) Reading Practice of Lesson No. – 1 to 5</li><li>(5) Write 10 pages of cursive writing from your book in separate English notebook.</li><li>(6) Make as many as four or five letter words from the given word – ELEPHANT (Do in separate English note book)</li><li>(7) Learn conversation question answers. Oral test will be held after summer break.</li><li>(8) Do Pg.- 86, 87, 89, 90 in grammar book.</li></ol>
MATHS	<ol style="list-style-type: none"><li>(1) Learn and write tables 2 to 5</li><li>(2) Do 5 questions of each topic in separate note-book</li><li>(3) Revise syllabus of first periodic test.</li><li>(4) Activity – Get a photo copy of pg no. 34 of maths book and paste it in the separate Holiday Homework note book and solve it.</li></ol>
PUNJABI	<ol style="list-style-type: none"><li>(1) ਕੰਨਾ, ਸਿਹਾਰੀ, ਬਿਹਾਰੀ, ਔਕੜ ਤੇ ਦੁਲੈਂਕੜ ਦੀ ਮਾਤਰਾ ਦੀ ਬੋਲ ਲਿਖਤ ਦਾ ਅਭਿਆਸ ਕਰੋ।</li><li>(2) ‘ਸਵੇਰ ਸੁਲੇਖ’ ਪੁਸਤਕ ਦੇ 15 ਪੇਜ ਸੁਲੇਖ ਦੇ ਕਰੋ।</li><li>(3) Book reading pg.no. – 18 to 44</li><li>(4) Activity Pg No. 8 ‘ਮੇਰਾ ਪਰਿਵਾਰ’ ਵਿੱਚ ਦਿੱਤੇ ਗਏ ਪਰਿਵਾਰ-ਰੁੱਖ ਵਿੱਚ ਆਪਣੇ ਪਰਿਵਾਰ ਦੀਆਂ ਤਸਵੀਰਾਂ ਚਿਪਕਾਓ।</li><li>(5) ਆਪਣੀ ਮਨਪਸੰਦ ਕਵਿਤਾ ਤੇ ਕਹਾਣੀ ਯਾਦ ਕਰੋ।</li><li>(6) Revise syllabus of Punjabi for Periodic Test.</li></ol>
E.V.S	<ol style="list-style-type: none"><li>(1) Paste or draw the picture of fine sense organs and also write the function on scrap file. (L. No. 3)</li><li>(2) Collect the pieces of different kind of clothes like Summer – Cotton, Winter – Woollen, Rainy – Plastic clothes and paste them in scrap book.</li><li>(3) Paste the pictures of seasonal eatables on scrap file. (L. No. 4)</li><li>(4) Learn what ever done in cw note book and book work of L. No. – 3, 4 &amp; 6 (with written practice)</li><li>(5) M.C.Q's of L.No. – 3, 4 &amp; 6 (Learn)</li><li>(6) Syllabus of periodic test- L. No. 3 and 4 L.No. 3 – Functions of our body parts L.No. 4 - Clothes</li></ol>
Computer	<ol style="list-style-type: none"><li>(1) Make a chart on apart of computer</li><li>(2) Make a chart on how to switch on the computer and paste the pictures in a serial and systematic order.</li><li>(3) Learn and revise chapter 1, 2.</li></ol> <p>Instruction:- To make a chart draw a border line around the chart. Make the chart in a very neat and clean and manner</p>
G.K	Learn Chapter 1 to 17 (Page. No. 5 to 22)
Drawing	Do page no.- 11, 16, 17, 18, 21



# HOLIDAYS HOME WORK

## CLASS – II

SUBJECT	HOME WORK
ENGLISH	<p>(1) Learn question answers, difficult words, word meanings, make sentences of Lessons done in the class</p> <p>(2) Do Pg. No. – 88, 89, 92, 93, 94 in English Grammar book.</p> <p>(3) Write 10 pages of cursive writing from your book in separate English notebook.</p> <p>(4) Find out the common noun and proper noun from L – 1 to 5 and write in your notebook.</p> <p>(5) Read daily one page from your reader book.</p> <p>(6) Learn poem – ‘The little boy blue’ and ‘Simple Simon’ from reader book.</p> <p>(7) Prepare any one poem for poem recitation (Poem recitation competition will be on 15<sup>th</sup> July)</p> <p>(8) Learn conversation question answers</p> <p><b>ORAL test will be taken after vacations. (Do Holidays homework in separate notebook)</b></p>
MATHS	<p>(1) Chapter – 1, Unit Test (Pg. No. 18, 19) Questions 1 to 8</p> <p>(2) Chapter – 2, Unit test (Pg. No. 35, 36) Questions 1 to 9</p> <p>(3) Chapter – 3, M.C.Q (Pg. No. 49, 50)</p> <p><b>NOTE:-</b></p> <p>(1) Do Holiday Home work in a separate note book.</p> <p>(2) Learn tables 2 to 12</p> <p>(3) Prepare Ch – 1, 2, &amp; 3 for Periodic Test (July)</p>
PUNJABI	<p>(1) ਕਿਤਾਬ ਪੰਜਾਬੀ ਸੁਲੇਖ ਦੇ ਇੱਕ ਤੋਂ ਦਸ ਪੇਜ ਪੂਰੇ ਕਰੋ।</p> <p>(2) Periodic Test ਸਿਲੇਬਸ ਪਾਠ – 2, 3, 4 (ਪੂਰਾ) ਅਤੇ ਲਿੰਗ ਬਦਲੋ, ਵਚਨ ਬਦਲੋ ਯਾਦ ਕਰੋ)</p> <p>(3) ਕੋਈ ਇੱਕ ਸਿੱਖਿਆਦਾਇਕ ਕਹਾਣੀ ਜ਼ਬਾਨੀ ਯਾਦ ਕਰੋ।</p> <p>(4) ‘ਸਾਡਾ ਪੰਜਾਬ’ ਜਾਂ ‘ਲੋਹੜੀ’ ਕਵਿਤਾ ਵਿਚੋਂ ਕੋਈ ਇੱਕ ਚੰਗੀ ਤਰ੍ਹਾਂ ਯਾਦ ਕਰੋ।</p> <p>(5) ਕਿਸੇ ਵੀ ਇੱਕ ਪੰਛੀ ਦੀ ਤਸਵੀਰ ਲਗਾ ਕੇ ਉਸਦੇ ਬਾਰੇ ਦਸ ਸਤਰਾਂ ਆਪਣੀ ਪੰਜਾਬੀ ਦੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੋ।</p>
HINDI	<p>1 सुलेख अ से अ: तक (15 pages)</p> <p>2 स्वरों को सही क्रम में लिखो। आ , अ, ऊ , उ , औ, ओ, ऐ, ए, इ, ई, अः, अं</p> <p>3 खाली स्थान भरों:- आ .... इ.. .. उ .. . .... . ऐ,. .... औ . .... अः</p> <p>4 सुलेख क से तक (one page for each)</p> <p><b>Do holidays homework in separate Hindi notebook</b></p>
E.V.S	<p>(1) Paste the pictures of stages of “Growing Up” (L – 2 Growing up) on scrap file.</p> <p>(2) Collage on Good and bad habits (L. No. 4) on scrap file.</p> <p>(3) M.C,Q’s of L. No. 2, 3 &amp; 4 (Learn)</p> <p>(4) Learn what ever done in C.W note book and book work of L. No. 2, 3 and 4. (with written Practice)</p>
Computer	<p>(1) Make a chart on lab manners i.e. what should we do and what shouldn’t we do and make this chart in a comparison form.</p> <p>(2) Make a chart on parts of computer and its uses. Write two or three points for each.</p> <p>(3) Learn and revise Chapter 1, 2.</p> <p><b>Instruction:- To make a chart draw a border line around the chart. Make the chart in a very neat and clean and manner</b></p>
G.K	Learn Chapter 1 to 20 (Page. No. 5 to 25)
Drawing	Do page no.- 11, 12, 14, 17 (Activity of paper fan)

## HOLIDAY HOME WORK

**CLASS:- II**

**SUBJECT:- MENTAL MATHS**

1. Numeral for ninety one is \_\_\_\_\_.
2. Number of name for 19 is \_\_\_\_\_.
3. Number just after 35 is \_\_\_\_\_.
4. Number just before 49 is \_\_\_\_\_.
5. Number between 89 is \_\_\_\_\_.
6. Place value of 6 in 61 is \_\_\_\_\_.
7.  $83 =$  \_\_\_\_\_ tens + \_\_\_\_\_ ones
8.  $7 \text{ tens} + 8 \text{ ones} =$  \_\_\_\_\_
9. Ring greater:- 59      60
10. Write in ascending order:- 27, 31, 23, 33, 13
11. Write in descending order:- 17, 11, 15, 13, 12
13. Insert  $<$  or  $>$  =  
(i)  $45$  \_\_\_\_\_  $54$                       (ii)  $6 \text{ tens}$  \_\_\_\_\_  $60$
14. Complete the skip counting:-  
5, 10, 15, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
15. Write the increasing order.  
47, 43, 46, 41, 44      \_\_\_\_\_
16. Write the missing number:-  
9 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ 13, 14
17. Write the numerals:-  
(a) Three hundred thirty six - \_\_\_\_\_  
(b) Seven hundred fifty one - \_\_\_\_\_  
(c) Two hundred eighteen. - \_\_\_\_\_

(d) Six hundred eighteen - \_\_\_\_\_

(e) Seven hundred eighteen - \_\_\_\_\_

18. Write the number names:-

(a) 942 - \_\_\_\_\_

(b) 146 - \_\_\_\_\_

(c) 50 - \_\_\_\_\_

(d) 93 - \_\_\_\_\_

(e) 725 - \_\_\_\_\_

19. Write the numbers before and after:-

(a) \_\_\_\_\_ 700 \_\_\_\_\_ (b) \_\_\_\_\_ 989 \_\_\_\_\_

(c) \_\_\_\_\_ 230 \_\_\_\_\_

20. Write the numbers between:-

(a) 440 \_\_\_\_\_ 442 (b) 399 \_\_\_\_\_ 401

(c) 517 \_\_\_\_\_ 519

21. Write the expanded form:-

(a)  $368 = \text{_____ h} + \text{_____ t} + \text{_____ ones}$

(b)  $183 = \text{_____ h} + \text{_____ t} + \text{_____ ones}$

(c)  $476 = \text{_____ h} + \text{_____ t} + \text{_____ ones}$

22. Write the short form:-

(a)  $5 \text{ h} + 2 \text{ t} + 7 \text{ ones} = \text{_____}$  (b)  $8 \text{ h} + 7 \text{ t} + 6 \text{ ones} = \text{_____}$

(c)  $6 \text{ h} + 5 \text{ t} + 3 \text{ ones} = \text{_____}$

23. Place value:-

(a) Place value of 3 in 743 is \_\_\_\_\_.

(b) Place value of 8 in 380 is \_\_\_\_\_.

(c) Place value of 5 in 561 is \_\_\_\_\_.

24. Complete by skip counting:-

(a) 305, 310, 315, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(b) 110, 120, 130, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(c) 712, 714, 716, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

25. Complete by skipping back words:-

(a) 350, 300, 250, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(b) 225, 220, 215, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(c) 760, 750, 740, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

26. Make smallest possible number with given digit:-

(a) 4, 3, 6 \_\_\_\_\_

(b) 6, 9, 0 \_\_\_\_\_

(c) 1, 8, 6 \_\_\_\_\_

27. Make largest possible number with given digit:-

(a) 5, 1, 3 \_\_\_\_\_

(b) 6, 9, 0 \_\_\_\_\_

(c) 9, 5, 7 \_\_\_\_\_

28. Fill in the blanks:-

(a) 7 more than 11 = \_\_\_\_\_ (b) 5 more than 34 = \_\_\_\_\_

(c) 9 more than 70 = \_\_\_\_\_

29. Fill in the the blanks:-

(a) 2 less than 555 = \_\_\_\_\_ (b) 8 less than 789 = \_\_\_\_\_

(c) 5 less than 677 = \_\_\_\_\_

30. Write and learn tables:- 1 to 12

# HOLIDAYS HOME WORK

## CLASS – III

SUBJECT	HOME WORK
ENGLISH	<ol style="list-style-type: none"><li>1. Learn the syllabus of July Periodical Test.</li><li>2. Read one page daily of Reader Book.</li><li>3. Do 15 pages of Cursive Writing.</li><li>4. Learn Poems:-L-1 and 6 (Reader Book0</li><li>5. Write a paragraph on 'My Aim in Life'.</li><li>6. Read any 2-3 Story books at home.</li></ol> <p><b>NOTE:-</b> Do Written work on Separate notebook.</p>
MATHS	<ol style="list-style-type: none"><li>1. CH-1 Unit Test (Page-16) Ques-2 to 10</li><li>2. CH-2 Unit Test (Page-28) Ques-2 ,4,5</li><li>3. CH-3 Unit Test (Page-38) Ques-2 to 9</li><li>4. CH-4 Unit Test (Page-49) Ques-6,7and 8</li></ol> <p><b>NOTE:-</b></p> <ol style="list-style-type: none"><li>1. Do H.H.W in a separate notebook.</li><li>2. Learn dodging tables 2-14.</li><li>3. Prepare ch-1,2,3 for periodic Test (July).</li><li>4. Do activity given on Page-78.</li></ol>
PUNJABI	<ol style="list-style-type: none"><li>(1) ਅਲੱਗ ਕਾਪੀ ਵਿੱਚ 10 ਪੰਨੇ ਸੁਲੇਖ ਲਿਖੋ।</li><li>(2) ਕੋਈ 20 ਸ਼ਬਦਾਂ ਨੂੰ ਵਾਕਾਂ ਵਿਚ ਵਰਤੋਂ</li><li>(3) ਲੇਖ-ਸਾਡਾ ਕੌਮੀ ਝੰਡਾ, ਮੇਰੇ ਦਾਦੀ ਜੀ ਲਿਖੋ</li><li>(4) ਅਰਜ਼ੀ - ਪ੍ਰਿੰਸੀਪਲ ਮੈਡਮ ਨੂੰ ਫ਼ੀਸ ਮੁਆਫੀ ਲਈ ਬਿਨੈ ਪੱਤਰ।</li><li>(5) ਨੋਟ:- ਕਾਪੀ ਅਤੇ ਕਿਤਾਬ ਵਿੱਚ ਕਰਵਾਇਆ ਸਾਰਾ ਕੰਮ ਯਾਦ ਕਰੋ।</li><li>(6) ਪਾਠ - 1 ਤੋਂ 6 ਤੱਕ ਅਭਿਆਸ ਦੇ ਪ੍ਰਸ਼ਨ ਉੱਤਰ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।</li></ol>
HINDI	<ol style="list-style-type: none"><li>1. Learn all syllabus.</li><li>2. Do dictation words (5 words from each chapter.)</li><li>3. Chart (Drawing Sheet) (i) (ii)</li></ol>
SOCIAL SCIENE	<ol style="list-style-type: none"><li>1. Paste the pictures of National symbols in scrap file.</li><li>2. Paste the pictures of uses of water in scrap file.</li><li>3. Learn Ch-1,2,3,5,6 done in the class.</li><li>4. Periodic Test syllabus Ch-1,2,6 (Full)</li><li>5. Practice diagrams of water cycle or solar system.</li></ol>
SCIENCE	<ul style="list-style-type: none"><li>• Prepare Periodic test Syllabus. Lesson-1,4,5 (Full) with Diagrams.</li></ul> <p><b>ACTIVITY:-</b></p> <ol style="list-style-type: none"><li>1. Roll No-1to10 Make a chart of STRUCTURE OF LEAF.</li><li>2. Roll No-11 to 20 Make a chart of HUMAN DIGESTIVE SYSTEM. Given on Page-65 in Book.</li><li>3. Roll No-21 to 30 Make a chart of WATER CYCLE IN NATURE. Given on Page -88 in book.</li><li>4. Roll No- 31 to 40</li></ol>
COMPUTER	<ol style="list-style-type: none"><li>1. Make a chart showing difference between different computer hardware parts and softwares. (Roll no 1-12)</li><li>2. Draw pictures of different versions of Ms-windows.( Roll No 13-26)</li><li>3. Make a chart of different mouse pointer shapes.(Roll No-27-40)</li></ol> <p>Learn and Revise all work done of L-1 and 2 in books and notebooks.</p>
Drawing	Do page no.- 18, 20, 21, 22 (Activity of CUP, COW)

# HOLIDAYS HOME WORK

## CLASS – IV

SUBJECT	HOME WORK
ENGLISH	<ol style="list-style-type: none"><li>1. Learn the syllabus of July Periodical Test.</li><li>2. Read one page daily of Reader Book.</li><li>3. Do 15 pages of cursive writing.</li><li>4. Learn poems:- L-1,4 and 7 (Reader book)</li><li>5. Write a paragraph on 'Indian Festival'.</li><li>6. Read any 2-3 story books at home.</li></ol> <p>Note:- Do written work on separate notebook.</p>
MATHS	<ol style="list-style-type: none"><li>1. CH-1 Unit Test (Page-20)                      Ques-2,3,4,7.</li><li>2. CH-2 Unit Test (Page-31)                      Ques- 1,2,5,6</li><li>3. CH-3 Unit Test (Page-46,47)                      Ques-1 to 9</li><li>4. CH-4 Unit Test (Page 58,59)                      Ques-1,3,5,6,7</li></ol> <p>NOTE:-</p> <ol style="list-style-type: none"><li>1. Do H.H.W in a separate notebook.</li><li>2. Learn dodging tables 2-16.</li><li>3. Prepare CH-1,2,3 for periodic Test (July)</li><li>4. Make a chart on Roman numerals.(Page-17).</li></ol>
PUNJABI	<ol style="list-style-type: none"><li>(1) ਕੋਈ ਦਸ ਸੁੰਦਰ ਲਿਖਾਈ ਵਿਚ ਸੁਲੇਖ ਲਿਖੋ।</li><li>(2) ਕੋਈ ਦੋ ਪੱਤਰ ਲਿਖੋ:- (ੳ) ਸਕੂਲ ਦੇ ਹੈੱਡ-ਟੀਚਰ ਨੂੰ ਸੈਕਸ਼ਨ ਬਦਲਣ ਲਈ ਬਿਨੈ-ਪੱਤਰ। (ਅ) ਪ੍ਰਿੰਸੀਪਲ ਸਰ ਨੂੰ ਵਜ਼ੀਫੇ ਲਈ ਬਿਨੈ-ਪੱਤਰ ਲਿਖੋ।</li><li>(3) ਦੋ ਲੇਖ ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ:- (ੳ) ਸ੍ਰੀ ਹਰਿਮੰਦਰ ਸਾਹਿਬ                      (ਅ) ਮੇਰਾ ਅਧਿਆਪਕ</li><li>(4) ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਇਆ ਗਿਆ ਸਾਰਾ ਕੰਮ ਯਾਦ ਕਰੋ।</li></ol>
HINDI	<ol style="list-style-type: none"><li>1 विशेषण, विशेष्य पेज नं 42</li><li>2 पर्यायवाची शब्द पेज नं 50, 51</li><li>3 वर्णमाला पेज नं 8</li><li>4 अनुच्छेद:- मेरी प्रिय अध्यापिका, मेरा मित्र पेज नं 82</li></ol>
SOCIAL STUDIES	<ol style="list-style-type: none"><li>1. Learn Ch-1,2,4,6,7 done in the class.</li><li>2. Periodic Test syllabus Ch-1,2 and 4 (full).</li><li>3. Paste pictures of different folk dance in northern plains in scrap file.</li><li>4. Paste the pictures of location,food,culture,tourist places of western desert in scrap file.</li></ol>
SCIENCE	<ul style="list-style-type: none"><li>• Prepare Periodic Test Syllabus Lesson-1,4,5(Full) with diagrams.</li></ul> <p><b>ACTIVITY</b></p> <ol style="list-style-type: none"><li>1. ROLL NO-1-10 Make a chart of HUMAN DIGESTIVE SYSTEM.</li><li>2. ROLL NO – 11-20 Make chart of STRUCTURE OF A LEAF</li><li>3. ROLL NO-21-30 Make chart of LAND BREEZE AND SEA BREEZE (Given on page No-94 in book.)</li><li>4. ROLL NO-31-38 Paste or draw pictures of six simple Machines on chart paper. (Given on Page no 86 in book.)</li></ol>
COMPUTER	<ol style="list-style-type: none"><li>1. Draw data storage Unit Table on Chart (Colourful and Attractive ) From Page -9 from book.(Roll No-1-13)</li><li>2. Draw different Secondary Storage devices on chart.(Roll No-14-27)</li><li>3. Draw a colourful and well labelled desktop on chart with icons and taskbars.(Roll No-28-40)</li></ol> <p>Learn and Revise all work done of L-1 and 2 in books and notebooks.</p>
Drawing	Do Page No -15,18,19,20,23 (Newspaper Clock Activity).

# HOLIDAYS HOME WORK

## CLASS – V

SUBJECT	HOME WORK
ENGLISH	<p><b>Grammar:-</b></p> <ul style="list-style-type: none"><li>• Ch-34 Comprehension 1 to 5.</li><li>• 5 pages of cursive hand writing.</li><li>• Ch-32 Learn Synonyms and antonyms.(1-25)</li></ul> <p><b>Reader:-</b></p> <ul style="list-style-type: none"><li>• Ch-6 Daffodils (Poem Recitation)</li><li>• Ch-2 Write Summary of the Chapter</li><li>• Learn all the syllabus done in the class.</li></ul>
MATHS	<ol style="list-style-type: none"><li>1. (Do M.C.Q's of Ch-1,2 in book.</li><li>2. Learn tables from 2 to 15.</li><li>3. Do unit test of Ch-1,2 and 11 in revision / separate notebook.</li><li>4. Do practice of all exercises by writing all sums in separate /revision notebooks twice.</li><li>5. Come prepared with your periodic test of Ch-1,2 and 11.</li></ol>
PUNJABI	<ol style="list-style-type: none"><li>(1) ਕੋਈ ਦਸ ਸੁੰਦਰ ਲਿਖਾਈ ਵਿਚ ਸੁਲੇਖ ਲਿਖੋ।</li><li>(2) ਕੋਈ ਦੋ ਪੱਤਰ ਲਿਖੋ:- (ੳ) ਅਪਣੇ ਮਿੱਤਰ ਜਾਂ ਸਹੇਲੀ ਨੂੰ ਭਰਾ ਦੇ ਵਿਆਹ ਤੇ ਬੁਲਾਉਣ ਲਈ ਬਿਨੈ-ਪੱਤਰ। (ਅ) ਆਪਣੇ ਵੱਡੇ ਭਰਾ ਨੂੰ ਸਲਾਨਾ ਪ੍ਰੀਖਿਆ ਬਾਰੇ ਪੱਤਰ ਲਿਖੋ।</li><li>(3) ਕੋਈ ਦੋ ਲੇਖ ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ:- (ੳ) ਅੱਖੀਂ ਡਿੱਠਾ ਫੁੱਟਬਾਲ ਦਾ ਮੈਚ (ਅ) ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ</li><li>(4) ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਇਆ ਗਿਆ ਸਾਰਾ ਕੰਮ ਯਾਦ ਕਰੋ।</li><li>(5) ਪਿਛਲੇ ਪੜ੍ਹਾਏ ਸਾਰੇ ਪਾਠਾਂ ਦਾ ਇੱਕ ਪੇਜ ਰੋਜ਼ ਪੜ੍ਹੋ।</li></ol>
HINDI	<ol style="list-style-type: none"><li>1 कक्षा में करवाया गया कार्य याद करे।</li><li>2 पाठ - 1 से 8 तक सभी पाठों में से कम से कम दस कठिन शब्द लिखिए।</li><li>3 निम्नलिखित विषयों पर चार्ट बनाईए। विशेषण पेज नं 41 चित्र सहित, काल पेज नं 46, 47 चित्र सहित।</li><li>4 अनुच्छेद लिखे व याद करे:- समय का सदुपयोग, भारतीय त्योहार</li></ol> <p>Learn Periodic Test syllabus</p>
SOCIAL SCIENCE	<ul style="list-style-type: none"><li>• Do Page No-121 (Activity Of Chapter -16) on the Assignment Sheets.</li><li>• Paste World Map on Assignment sheet and mark 7 continents and 5 oceans.</li><li>• Draw and practice diagrams on Assignment sheets.<ol style="list-style-type: none"><li>i) Cardinal Directions.</li><li>ii) Important Latitudes.</li><li>iii) Heat Zones.</li><li>iv) Pyramid of our Judiciary.</li></ol></li></ul> <p><b>PERIODIC SYLLABUS :- Chapter No-1,16 &amp; 19</b></p>
SCIENCE	<ul style="list-style-type: none"><li>• Prepare Periodic Test Syllabus Lesson-1,3,4 (FULL) with diagrams. <b>ACTIVITY</b><ol style="list-style-type: none"><li>1. Roll No-1 to 10 Make a model of an eye.(Use thermocol and chart paper)</li><li>2. Roll No-11 to 20 Make a model of Tongue .(Use thermocol and chart paper)</li><li>3. Roll No-21 to 30 Make a chart of Structure of an Ear</li><li>4. Roll No-31 to 39 Make a model of Brain.(Use thermocol and chart paper)</li></ol></li></ul>
COMPUTER	<ol style="list-style-type: none"><li>1. Make chart having list of devices and computers that are involved in the evolution of computers. (Roll No-1-12)</li><li>2. Make a colourful chart showing types of modern Computers with their features and examples. (Roll No-13-27)</li><li>3. Make a colourful chart of different types of icons that you can see on desktop. (Roll No-28-40)</li><li>4. Learn and Revise all work done of L-1 and 2 in books and notebooks.</li></ol>
Drawing	Do page no.- 14, 16, 18, 19, 25 (Activity of stencil spray )

# HOLIDAYS HOME WORK

## CLASS – V

SUBJECT	HOME WORK
ENGLISH	<ol style="list-style-type: none"><li>(1) Complete comprehension on Pg. No. 4, 6, 1, 13, 15 in BBC.</li><li>(2) Complete the notices in BBC.</li><li>(3) Complete the notice on Pg. No.- 187 BBC.</li><li>(4) Do it on a separate assignment sheets.</li><li>(5) Complete all the informal letters in BBC.</li><li>(6) Learn the whole syllabus of Ist Periodic Test.</li></ol>
MATHS	<ol style="list-style-type: none"><li>(1) Learn tables from 2 to 16.</li><li>(2) Do practice of all exercise all sums of NCERT and systematic in revision notebook twice.</li><li>(3) Come prepared with your periodic test of Ch – 1, 2, 3.</li><li>(4) Do the project of factor tree either in groups or individually of numbers 1024.</li></ol>
PUNJABI	<ol style="list-style-type: none"><li>(1) ਕੋਈ ਪੰਜ ਬਿਨੈ-ਪੱਤਰ ਲਿਖੋ ਤੇ ਯਾਦ ਕਰੋ।</li><li>(2) ਕੋਈ ਤਿੰਨ ਲੇਖ ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ:-</li><li>(3) ਬੋਲੀ, ਵਿਆਕਰਨ ਤੇ ਪੜਨਾਵ ਲਿਖੋ ਤੇ ਯਾਦ ਕਰੋ।</li></ol> <p>Learn all the syllabus done in the class.</p>
HINDI	<ol style="list-style-type: none"><li>1 कक्षा में करवाया गया कार्य याद करें।</li><li>2 सुंदर लिखाई में दस सुलेख लिखें।</li><li>3 देशभक्ति/प्रकृति से संबंधित कोई दो कविताएँ लिखिए। कविता से संबंधित चित्र बनाइए या चिपकाए</li><li>4 पत्र तथा लेख/निबंध याद कीजिए। उनके कठिन शब्द लिखें तथा स्वयं चैक करें।</li><li>5 शब्द-अर्थ लिखें तथा याद करें। अंटशंट से लेकर चुन्नट तक , अ से च वर्ण तक</li><li>6 छुट्टियों का सारा कार्य एक अलग कापी पर करिए।</li></ol>
SOCIAL SCIENCE	<ol style="list-style-type: none"><li>(1) Map Practice Book:- Do page no. 3 and 5</li><li>(2) Geography projects page no. 72 – 1, 2, 3, 4</li><li>(3) History projects page no. 75 – 1, 2, 3</li></ol> <p>NOTE:- Do two projects of Geography and one from History. Periodic Test Syllabus:- Ch-1 (Geography), Ch – 1 (History), Ch – 1 (Civics)</p>
SCIENCE	<ol style="list-style-type: none"><li>(1) learn Periodic Test syllabus</li><li>(2) Do experiments in your lab manual.</li><li>(3) Make a chart on some diseases/disorder caused by deficiency of vitamins and minerals.</li><li>(4) Make a collage on physical and chemical changes.</li></ol>
COMPUTER	<ol style="list-style-type: none"><li>(1) Make a colourful chart on generation of computers. Paste the pictures of different generations and also write its features.</li><li>(2) Create a chart on the topic 'Features of window-7'. Support each point with example and picture.</li></ol> <p>NOTE:-</p> <ol style="list-style-type: none"><li>(a) Draw a border line around the chart.</li><li>(b) Paste the pictures on the chart in a very systematic manner.</li></ol>
Drawing	Do page no.- 52, 53, 62, 63, 78 (Activity of flower coaster )

# HOLIDAYS HOME WORK

## CLASS – VII

SUBJECT	HOME WORK
ENGLISH	(1) Do comprehension Pg. No. – 4, 5, 6, 12, 14, 16 (2) Do informal letter Pg. No. – 65, 68 (3) Do diary entry Pg. No. – 45, 46 (4) Do e-mail Pg No.- 75, 76 (5) complete all the exercises of Determiners, Tenses, Sentence re-ordering. (6) Learn the whole syllabus of Periodic Test.
MATHS	(1) Chapter – 1, 2 & 3 from systematic book in holiday homework notebook. (2) Learn tables from 2 to 20. (3) Do all examples from NCERT and systematic maths of chapter – 1, 2 & 3 on loose sheets (3) Come back with periodic test of Chapter – 1, 2 & 3 (4) Activity on Bar Graph by taking any example.
PUNJABI	(1) ਪੰਜਾਬੀ ਦੇ ਪ੍ਰਸਿੱਧ ਕਵੀਆਂ, ਨਾਵਲਕਾਰਾਂ ਅਤੇ ਨਾਟਕਕਾਰਾਂ, ਕਹਾਣੀਕਾਰਾਂ ਨਾਲ ਸੰਬੰਧਤ collage ਬਣਾਉ (R. No. 1 to 10) (2) ਸਾਡੀ ਵਿਰਾਸਤ ਨਾਲ ਸੰਬੰਧਤ ਚਾਰਟ ਜਾਂ collage or file ਬਣਾਉ (R. No. 11 to 20) (3) ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ ਜਾਂ ਤਿਉਹਾਰਾਂ ਨਾਲ ਸੰਬੰਧਤ ਚਾਰਟ ਬਣਾਉ (R. No. 21 onwards) (4) ਕੋਈ ਚਾਰ ਲੇਖ ਲਿਖੋ। (5) ਅਰਜੀ, ਪੱਤਰ ਕੋਈ ਦੋ ਲਿਖੋ। Note:- Learn the syllabus done in the class. In class test copy ch – 1 to 7 learn and write difficult words 20 from each chapter.
HINDI	1 कक्षा में करवाया गया सारा कार्य याद करें। 2 कक्षा में करवाए गए दो निबंध लिखें। 3 प्रकृति से संबंधित कोई कविताएं लिखें तथा उनसे संबंधित चित्र बनाएँ या चिपकाएँ 4 अतिशय से लेकर दुकैली तक शब्दों के अर्थ लिखें तथा याद करें (Pg. No.- 144, 145) 5 Learn Periodic test syllabus
SOCIAL STUDIES	(1) Map Practice – Do page no. 3, 4, 5, 11 (2) Geography Projects – page no. 76 – 1, 2 (3) History Projects – Page 79 – 1, 2, 3, 4 NOTE:- Do two project of Geography and one from History. Periodic test Syllabus – Chapter no – 1 of (History) Ch – 1 of Geography and Ch – 1 of Civics
SCIENCE	(1) Make a chart on Acids, Bases and Indicators (2) Do experiments 1 to 12 in your lab Manual. (3) Learn Periodic Test syllabus (Ch – 1 to 3)
Computer	(1) Make a chart on lab manners i.e. what should we do and what shouldn't we do and make this chart in a comparison form. (2) Make a chart on parts of computer and its uses. Write two or three points for each. (3) Learn and revise Chapter 1, 2. Instruction:- To make a chart draw a border line around the chart. Make the chart in a very neat and clean and manner
G.K	Learn all the syllabus done in the class.
Value Educ.	Read the value based stories and write one story on sheet
Drawing	Do page no.- 50, 52, 54, 56, 58 (Activity:- Make photo frame with waste material

# HOLIDAYS HOME WORK

## CLASS – VIII

SUBJECT	HOME WORK
ENGLISH	(1) Do comprehension No. – 5, 6, 7, 8, 9, 10 (from Pg No. 10 to 20) (2) Do exercise of tenses (consolidate) on pg no. 154 and 155 (3) Do exercise of Dialogue completion from Pg 177 to 178 (4 exercises) (4) Do notice no.6 on pg. No. 41 (5) Do diary entry no. 2 (Pg 48) (6) Do e-mail no. 2 (Pg. 78) Note:- revise whole syllabus done till 30 <sup>th</sup> May, 2017
MATHS	(1) Assignment to be done in separate otebook. (2) Revise chapters done in class from systematic (3) Revise syllabus of Periodic Test i.e chapters 1, 2 & 3 (4) Learn tables up to 20
PUNJABI	(1) ਕਿਸੇ ਵੀ ਸ਼ਹੀਦ ਤੇ (2) ਮੋਬਾਇਲ ਦੀਆਂ ਲਾਭ ਤੇ ਹਾਨੀਆਂ (3) ਜੀਵਨੀ - ਡਾ. ਮਹਿੰਦਰ ਸਿੰਘ ਰੰਧਾਵਾ (4) ਵਿਦਿਆਰਥੀ ਤੇ ਅਨੁਸ਼ਾਸਨ (5) ਵਿਸਾਖੀ ਦਾ ਮੇਲਾ (6) ਕੋਈ ਵੀ ਚਾਰ ਪੱਤਰ (7) ਵਿਆਕਰਣ ਦ 1 - 8 ਪਾਠ ਦੇ ਪ੍ਰਸ਼ਨ ਉੱਤਰ Note:- Learn the syllabus done in the class.
HINDI	1 कक्षा में करवाया गया सारा कार्य याद करें। 2 कक्षा में करवाए गए निबंध याद करें। 3 कोई दो संवाद देशभक्ति तथा हास्य से संबंधित - टी. वी. चैनल से देखकर लिखिए। 4 वयाकरण से संबंधित चार्ट बनाईए। रोल नं - 1 - 5 संज्ञा, रोल नं- 6-10 कारक, रोल नं - 11-15 सर्वनाम, रोल नं- 16-20 विशेषण, रोल नं- 21-25 क्रिया, रोल नं- 26-30 काल, रोल नं- 31-35 क्रिया विशेषण, रोल नं- 36-40 कारक
SOCIAL STUDIES	(1) Map Practice – Do page no. 5, 7, 9, 11, 13, 15 (2) Geography Projects – page no. 82 – 1, 2, 3, 4, 5, 10 (3) History Projects – Page 85 – 1 & 2 NOTE:- Do two project of Geography and one from History. Periodic test Syllabus – Chapter no – 1 of (History) Ch – 1 of Geography and Ch – 1 of Civics, LEARN STATES AND CAPITALS GIVEN ON COVER PAGE OF Map Practise Book, Collage of natural resources for Roll No.- 1-20 Collage of man made resources of Roll no.- 21-40
SCIENCE	(1) Learn Periodic Test syllabus (2) Do experiment in your lab manual (3) Make of a file of Rabi crops and Khariff crops (any four in packet) (4) 4 metals and 4 non metals

# HOLIDAYS HOME WORK

## CLASS – IX

SUBJECT	HOME WORK																		
ENGLISH	(1) BBC Compact – Comprehension (Pg. No.- 36 – 45) (1-5) (2) Module 2 Writing Articles (H.A 11 & 12) (Pg. No. 82-85) (3) Module 3 Diary Entry (H.A-14) (Pg. No.- 112-113) (4) Module 4 Short Stories (H.A- 16) (Pg. No. 140 – 141) (5) Write summary of ch – 1-8 of Part II, A voyage to brobdingnag in separate copy of Novel Gulliver Travels. (6) Learn the syllabus done till May.																		
MATHS																			
PUNJABI	(1) ਲੇਖ:- ਕੋਈ ਪੰਜ ਸਮਸਿਆਵਾਂ ਲਿਖੋ, ਮੰਗਤਿਆਂ ਦੀ ਸਮਸਿਆਂ, ਸੜਕ ਤੇ ਦੁਰਘਟਨਾਵਾਂ ਦੀ ਸਮਸਿਆ, ਗਲੋਬਲ ਵਾਰਮਿੰਗ, ਇੰਟਰਨੈਟ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਪੇਸ਼ ਕਰੋ ਕੀ ਇਹ ਠੀਕ ਹੈ ਜਾਂ ਗਲਤ, ਭਰੂਣ ਹੱਤਿਆ। (2) ਪੱਤਰ:- ਕੋਈ ਚਾਰ ਨਿੱਜੀ ਪੱਤਰ ਲਿਖੋ। Note:- Learn all work done in the class and grammar also.																		
HINDI	समास, वाक्यभेद अर्थ के आधार पर, उपसर्ग, प्रत्यय के पन्द्रह उदाहरण लिखें, हर अलंकार के पाँच-पाँच उदाहरण लिखें। अर्थ के आधार पर वाक्य भेद और अलंकार का चार्ट बनाएँ, निम्नलिखित विषयों से संबंधित पत्र का फोरमेट लिखें, संपादक को, थानाध्यक्ष को, स्वास्थ्य अधिकारी को, मुख्यमंत्री को, नगर निगम को, नगरपालिका को, प्रधानाचार्य को, मित्र को, खाद्य विभाग को, छोटी बहन जा भाई को बधाई पत्र, निमंत्रण पत्र, शुभकामना पत्र, शिकायत पत्र। टी. वी. चैनलों से देखकर हास्य, देशभक्ति से संबंधित एक-एक संवाद लिखें। तीन संवाद किसी भी विषय पर अलग से लिखें। कक्षा में करवाया गया कार्य याद करें। Learn the syllabus of Periodic Test																		
SOCIAL STUDIES	ECONOMICS – Do extra questions of Ch-1 and 2 in separate notebook and learn whole syllabus GEOGRAPHY – Do extra questions of Ch-1 in separate notebook and learn whole syllabus HIS & Pol. SCI. – Complete assignments on the sheets and do the project work in file form.																		
SCIENCE	PHYSICS – Do numerical from NCERT and reference book for chapters done in class. CHEMISTRY – Make a chart on properties of solid from 1 to 10 Roll. No. Make a chart on properties of Liquids on 11 to 20 Roll. No. Make a chart on properties of gases and diffusion from 21 to 30 Roll. No. Roll. No. 30 onwards will make a chart on properties of metals / non-metals NOTE:- Complete Assignment on sheets. Revise the periodic test syllabus (Unit – I) BIOLOGY:- Make a chart on plant tissues – Roll. No. 1 to 25 Roll. No. 26 onwards on Animal tissues Do practical (experiment) in lab manual. Learn periodic test syllabus ch – cell																		
I.P	(1) Collect information about the following topic from internet and prepare. (2) Power point presentation at least 10 slides (Prepare CD and E.mail on) <table style="margin-left: auto; margin-right: auto;"><tr><td></td><td>Roll. No.</td><td>Roll. No.</td></tr><tr><td></td><td>Class A</td><td>Class B</td></tr><tr><td>(a) E- Learning</td><td>(1-11)</td><td>(1-12)</td></tr><tr><td>(b) E-commerce</td><td>(12-22)</td><td>(13-24)</td></tr><tr><td>(c) 3G</td><td>(23-33)</td><td>(25-36)</td></tr><tr><td>(d) Net banking</td><td>(34-46)</td><td>(37-46)</td></tr></table>		Roll. No.	Roll. No.		Class A	Class B	(a) E- Learning	(1-11)	(1-12)	(b) E-commerce	(12-22)	(13-24)	(c) 3G	(23-33)	(25-36)	(d) Net banking	(34-46)	(37-46)
	Roll. No.	Roll. No.																	
	Class A	Class B																	
(a) E- Learning	(1-11)	(1-12)																	
(b) E-commerce	(12-22)	(13-24)																	
(c) 3G	(23-33)	(25-36)																	
(d) Net banking	(34-46)	(37-46)																	

## QUESTION BANK

**CLASS:- IX**

**SUBJECT:- HINDI**

- 1 कक्षा में करवाया गया कार्य याद करें।
- 2 समास, वाक्य भेद अर्थ के आधार, उपसर्ग, प्रत्यय के पन्द्रह-पन्द्रह उदाहरण लिखें। हर अलंकार के पाँच-पाँच उदाहरण लिखें।
- 3 अर्थ के आधार पर वाक्य भेद और अलंकार का चार्ट बनाएँ और प्रवाह-चार्ट बनाएँ इसके लिए ड्राइंग सीट का इस्तेमाल करें।

### पत्र

निम्नलिखित विषयों से संबंधित पत्र का फोरमेंट लिखें।

- 1 संपादक को
- 2 थानाध्यक्ष को
- 3 स्वास्थ्य अधिकारी को
- 4 मुख्यमंत्री को
- 5 नगर निगम को
- 6 नगरपालिका को
- 7 प्रधानाचार्य को
- 8 मित्र को
- 9 खाद्य विभाग को
- 10 छोटी-बहन या भाई को
- 11 बधाई पत्र
- 12 निमंत्रण पत्र
- 13 शुभकामना पत्र
- 14 शिकायती पत्र
- 15 टी.वी. चैनलों से देखकर हास्य देशभक्ति से संबंधित एक - एक संवाद लिखें
- 16 किसी भी विषय पर तीन संवाद लिखें।

**Learn Periodic Test**

**QUESTION BANK**

**CLASS:- IX**

**SUBJECT:- MATHEMATICS**

1. Find six rational numbers between 3 and 5
2. Find five rational numbers between  $\frac{3}{7}$  and  $\frac{4}{7}$
3. Represent  $\sqrt{2}$ ,  $\sqrt{3}$  and  $\sqrt{5}$  on number line.
4. Simplify (i)  $(\sqrt{2} + \sqrt{7})^2$  (ii)  $(3 + \sqrt{7})(2 + \sqrt{5})$   
(iii)  $(3 + \sqrt{3})(3 - \sqrt{3})$
5. Rationalise the denominator of:-  
(i)  $\frac{1}{3-\sqrt{3}}$  (ii)  $\frac{3}{\sqrt{3}-\sqrt{7}}$  (iii)  $\frac{1}{2+3\sqrt{2}}$  (iv)  $\frac{1}{\sqrt{5}-2}$  (v)  $\frac{1}{2+\sqrt{3}}$
6. Represent the following on number line  
(a)  $\sqrt{4.5}$  (b)  $\sqrt{7.3}$  (c)  $\sqrt{3.5}$  (d)  $\sqrt{5.6}$
7. Find :- (a)  $1331^{\frac{1}{3}}$  (b)  $3^{\frac{2}{3}} \times 3^{\frac{1}{3}}$  (c)  $2^{\frac{1}{5}} \times 3^{\frac{1}{5}}$
8. Simplify:- (a)  $\frac{13^{\frac{1}{2}}}{13^{\frac{1}{4}}}$  (b)  $343^{-\frac{1}{3}}$  (c)  $(3^{\frac{2}{3}})^4$  (d)  $\frac{1}{7^3}$
9. Find p (0), p (1), p (2), p (3) for each of the following:-  
(a)  $p(x) = 2x^2 - 4x + 1$  (b)  $p(y) = y^3 - 2y^2 + 3y - 1$   
(c)  $p(t) = (t+2)(t-2)$  (d)  $p(t) = 5t - 4t^2 + 3$   
(e)  $p(y) = 3t^3 - 3$
10. Verify whether the following are zeros of the polynomial  
(a)  $p(x) = 5x + 1, x = -1/5$  (b)  $p(y) = (y-2)(y+1), y = -1, 2$   
(c)  $p(y) = y^2 + 1, y = 1, -1$  (d)  $P(t) = Lt + m, t = -m/L, -L/m$
11. Find remainder when p (x) is divided by g (x)  
(a)  $p(x) = 3x^4 - 4x^3 - 3x - 1$   $g(x) = (x-1)$  (b)  $p(x) = x^3 + 1$   $g(x) = x + 1$   
(c)  $p(x) = 4x^3 + 4x^2 - x - 1$   $g(x) = (2x + 1)$  (d)  $p(x) = x^3 - bx^2 + 6x - b$   $g(x) = x - b$
12. Find the value of k if (t-1) is a factor of  $4t^3 + 3t^2 - 4t + k$
13. Determine whether g (x) is a factor of p (x) or not,  
(a)  $t^3 - t^2 - (2 + \sqrt{2})t + \sqrt{2}, g(x) = (t + 1)$   
(b)  $p(x) = x^3 - 23x^2 + 142x - 120, g(x) = (x-1)$   
(c)  $p(x) = x^3 - 4x^2 + x + 6, g(x) = x - 3$
14. Find the value of k, if (x-2) is a factor of :  
(a)  $kx^2 - \sqrt{3}x + 1$  (b)  $kx^2 - 4x + k$  (c)  $3x^2 + kx + \sqrt{2}$  (d)  $4x^2 + kx + 3$
15. Factorise:  
(a)  $x^2 - 5x + 6$  (b)  $y^2 - 9y + 6$  (c)  $2y^2 + 8y + 8$
16. Factorise:  
(a)  $x^3 - 23x^2 + 142x - 120$  (b)  $2x^3 + 7x^2 - 3x - 18$
17. Use suitable identity to find the following products:  
(a)  $(4y+5)(4y-4)$  (b)  $(x^2 + \frac{7}{2})(x^2 - \frac{7}{2})$  (c)  $(7-3x)(7+3x)$

18. Evaluate without multiplying directly:

(a)  $205 \times 206$

(b)  $104 \times 96$

(c)  $105 \times 107$

21. Expand:

(a)  $(3z+1)^3$

(b)  $[\frac{a}{2} - \frac{b}{4} + c]^2$

(c)  $(x - \frac{3y}{4})^3$

(d)  $(x-2y-2z)^2$

22. Factorize:

(a)  $8x^3+27y^3+36x^2y+54xy^2$

(b)  $4a^2+b^2+c^2-4ab-2bc+2ca$

23. Factorize:

(a)  $64x^3+y^3+z^3-12xyz$

(b)  $512m^3-343n^3$

(c)  $27x^3 - \frac{1}{216} - \frac{9x}{2} + \frac{1}{4}$

24. Find four different solutions of the following equations:

(a)  $4x+3y=12$

(b)  $3y+7=0$

(c)  $\pi x+2y=9$

(d)  $3x+2y=7$

25. Draw the graph of:

(a)  $x+y=9$

(b)  $x-y=6$

(c)  $x+2y=6$

(d)  $y=3x$

26. The force applied on a body is directly proportional to the acceleration produced in the body. Write an equation to express this situation and plot the graph of the equation.

27. Find the value of 'a' for which  $(x - 1)$  is a factor of the polynomial  $a^2x^3 - 4ax + 4a - 1$ .

28. Find the remainder when  $3x^3 - 4x^2 + 7x - 5$  is divided by  $(x - 3)$ . Also find remainder if  $3x^3 - 4x^2 + 7x - 5$  is divided by  $(x + 3)$

29. Plot the points  $(3, 2)$ ,  $(2, 3)$ ,  $(-4, 5)$  and  $(5, -3)$  on the graph. Join them and name the figure formed.

30. Which of the following points lie on x – axis? Which on y – axis?

A  $(0, 2)$  B  $(5, 6)$  C  $(-3, 0)$  D  $(0, -3)$  E  $(0, 4)$  F  $(6, 0)$  G  $(3, 0)$

31. (i) If  $(x - 1)$  is a factor of  $p(x) = 2x^2 - kx + \sqrt{2}$ . Find the value of k.

(ii) Show that  $(x - 1)$  is a factor of  $p(x) = 3x^3 - x^2 - 3x + 1$  and hence factorise  $p(x)$

32. (i) The polynomial  $p(x) = x^4 - 2x^3 + 3x^2 - ax + 3a - 7$  when divided by  $(x + 1)$  leaves the remainder 19. Find the value of 'a'

(ii) Find the value of 'a' if  $(x + a)$  is a factor of  $x^4 - a^2x^2 + 3x - a$



## QUESTION BANK

**CLASS:- X**

**SUBJECT:- CHEMISTRY**

1. What are two necessary conditions for rusting of iron?
2. Why is copper vessel covered with green coating in the rainy season?
3. What do you mean by 'activity of series of metals'? Write it.
4. What is galvanisation?
5. Suggest name of substance reduced in a redox reaction.
6. Why does a zinc plate placed in copper sulphate solution for a few hours / days develop holes?
7. Can we store or place silver nitrate solution in an iron vessel? Why or why not. Give reason.
8. The following reactions are observed to occur:-  
$$\text{CuSO}_4 + \text{Fe} \rightarrow \text{FeSO}_4 + \text{Cu}$$
$$\text{FeSO}_4 + \text{Zn} \rightarrow \text{ZnSO}_4 + \text{Fe}$$
$$2\text{AgNO}_3 + \text{Cu} \rightarrow \text{Cu}(\text{NO}_3)_2 + 2\text{Ag}$$
Arrange Cu, Fe, Ag and Zn in order of their reactivity.
9. Balance the following equations:-  
$$\text{Fe}_2(\text{SO}_4)_3 + \text{NaOH} \rightarrow \text{Fe}(\text{OH})_3 \downarrow + \text{Na}_2\text{SO}_4$$
$$\text{Mg}(\text{OH})_2 + \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2\text{O}$$
10. Suggest two methods to prevent rancidity and rusting of iron.
11. Name substance that has been oxidised and reduced in the following reactions:-  
$$\text{CuO} + \text{C} \rightarrow \text{CO} + \text{Cu}$$
$$\text{Cl}_2 + \text{H}_2\text{S} \rightarrow 2\text{HCl} + \text{S}$$
12. Why does stale food give bad smell and bad taste?

**QUESTION BANK**

**CLASS:- X**

**SUBJECT:- MATHEMATICS**

**ASSIGNMENT**

1. Find zeros of the quadratic polynomial  $9x^2 - 16$  (Ans:-  $\pm 4/3$ )
2. Find values of p and q for which the system of linear equation has infinite no. of solutions  $3x-y=14$   $(p+q)x - 2qy = 5p + 2q + 1$  (Ans:-  $p = 5, q = 1$ )
3. Draw the graphs of  $2x+y=6$ ,  $2x - y + 2=0$ . Shade the region bounded by these lines and x-axis. Also find area of shaded region. (Ans:- 8 sq unit)
4. The sum of a 2-digit no. and no. obtained by reversing the order of digits is 99. If the digits of the number differ by 3. Find the number. (Ans:- 63 or 36)
5. A sailor goes 8 km downstream in 40 min. and returns in 1 hour. Find the speed of sailor in still water and speed of current. (Ans:- 10, 2)
6. Form a quadratic polynomial whose zeroes are  $\frac{2 + \sqrt{2}}{3}$  and  $\frac{2 - \sqrt{2}}{3}$  (Ans:-  $9x^2 - 12x + 2$ )
7. Draw the graphs of the equations  $4x - y - 8 = 0$  and  $2x - 3y + 6 = 0$ . Also determine the coordinates of the vertices of the triangle formed by these lines and x-axis. (Ans:- (-2,0) (2,3) (3,0))
8. Solve:-  $\frac{4}{x} + 3y = 14$  ;  $\frac{3}{x} - 4y = 23$  (Ans:-  $x = 1/5, y = -2$ )
9. If  $\alpha$  and  $\frac{1}{\alpha}$  are the zeroes of the polynomial  $4x^2 - 2x + (k - 4)$ . Find value of k. (Ans:-  $k = 8$ )
10. Find all the zeroes of  $2x^4 + 7x^3 - 19x^2 - 14x + 30$  if two of its zeroes are  $\sqrt{2}$  and  $-\sqrt{2}$
11. Draw the graphs of the equations  $x - y + 1 = 0$  and  $3x + 2y - 12 = 0$ . Determine the coordinates of vertices of triangle formed by these lines and x - axis, and shade the triangular region. (Ans:- (2,3) (-1,0) (4,0))
12. Find the zeroes of  $5x^2 - 8x - 4$  and verify relationship between zeroes and coefficients of the polynomial. (Ans:- 2, -2/5)
13. For what value of k, - 8 is a zero of the polynomial  $x^2 - x - (5k + 2)$ . Also, find the other zero. (Ans:-  $k = 14$  other 0 = 9)
14. Find the zeroes of  $2x^2 - 7x + 3$  and hence find sum and product of zeroes.. (Ans:- zeroes  $1/2, 3$  sum= $7/2$ , product =  $3/2$ )
15. If  $x + 1$  is a factor of  $x^2 - 3ax + 3a - 13$ , find the value of a. (Ans:-  $a = 2$ )
16. Divide  $2x^2 + x - 20$  by  $x + 3$  and verify the division algorithm.
17. If  $\sin A = \frac{\sqrt{3}}{2}$ , find the value of  $2\cot^2 A - 1$ . (Ans:- -1/3)
18. If  $\tan A = \frac{5}{12}$ , find the value of  $(\sin A + \cos A) \cdot \sec A$ . (Ans:- 7/12)
19. Find the value of  $\cos \theta \cot \theta \operatorname{cosec} \theta$  if  $\sin \theta = \frac{1}{4}$
20. If  $\sqrt{2} \sin (60 - \theta) = 1$ . Find the value of  $\theta$ . (Ans:-  $\theta = 15^\circ$ )
21. Evaluate:-  $\frac{4 \cot^2 60 + \sec^2 30 - 2 \sin^2 45}{\sin^2 60 + \cos^2 45}$  (Ans:- 4/3)
22. Find the value of  $\cot 10^\circ \cot 15^\circ \cot 75^\circ \cot 80^\circ$ . (Ans:- 1)

23. If  $\sin 3x = \cos (x - 26^\circ)$  and  $3x$  is an acute angle. Then find the value of  $x$ .  
(Ans:-  $x=29^\circ$ )
24. Find the value of  $2 \left( \frac{\tan 22^\circ}{\cot 68^\circ} + \frac{1}{2} \left( \frac{\sin 47^\circ}{\cos 43^\circ} \right) \right)$   
(Ans:-  $5/2$ )
25. Find the value of  $k$  if  $\frac{\cos 35^\circ}{\sin 55^\circ} + \frac{2 \sin \theta}{\cos (90-\theta)} = \frac{k}{2}$   
(Ans:-  $k = 6$ )
26. How many three digit numbers are divisible by 7?  
(Ans:- 128)
27. which term of the arithmetic progression 8, 14, 20, 26 ..... will be 72 more than its  $41^{\text{st}}$  term?  
(Ans:-  $53^{\text{rd}}$ )
28. Find the term of arithmetic progression 9, 12, 15, 18 ..... which is 39 more than its  $36^{\text{th}}$  term.  
(Ans:-  $49^{\text{th}}$ )
29. The  $17^{\text{th}}$  term of an A.P is 5 more than twice its  $8^{\text{th}}$  term. If the  $11^{\text{th}}$  term of the A.P is 43, find the  $n^{\text{th}}$  term.  
(Ans:-  $4n-1$ )
30. Find  $8^{\text{th}}$  term from the end of the A.P 7, 10, 13,.....184  
(ans:- 163)
31. Find  $10^{\text{th}}$  term from the end of A.P 8, 10, 12, .....126  
(Ans:- 108)
32. An A.P consists of 60 terms. If the first and the last terms be 7 and 125 respectively. Find  $32^{\text{nd}}$  term.  
(Ans:- 69)
33. Find the value of  $x$  for which  $8x+4$ ,  $6x-2$  and  $2x+7$  are in A.P. (Ans:-  $15/2$ )
34. Find the sum of all three digit natural numbers, which are divisible by 7.  
(Ans:- 70336)
35. Sum of first 14 terms of an A.P is 1505 and its first term is 10. Find its  $25^{\text{th}}$  term.  
(Ans:- 370)
36. In an A.P the sum of first ten terms is  $-150$  and the sum of its next ten terms is  $-550$ . Find the A.P  
(Ans:-  $a = 3$   $d = -4$ )
37. In an A.P the first term is 22,  $n^{\text{th}}$  term is  $-11$  and the sum to first  $n$  terms is 66. Find  $n$  and  $d$ .  
(Ans:-  $n=12$   $d=-3$ )

## GEOMETRY

- If the points A (6, 1) B (8, 2) C (9, 4) d (p, 3) are the vertices of a parallelogram taken in order. Find value of P.  
(Ans:-  $p=7$ )
- If A, (-2, -1) B (a, 0) C (4, b) D (1, 2) are teh vertices of parallelogram. Find value of a and b.  
(Ans:-  $a=1$   $b=3$ )
- Prove that (4, -1) (6, 0) (7, 2) and (5, 1) are vertices of a rhombus. Is it a square?
- Find the coordinates of points which trisect the line segment joining (1, -2) and (-3, 4)
- Find the coordinates of a point A, where AB is a diameter of the circle whose centre is (2, -3) and B is (1, 4)
- Prove that the points (2, -2) (-3, 8) (-1, 4) are collinear.
- Prove that the points (a, b + c) (b, c+a) and (c, a+b) are collinear.
- For what value of  $k$  will the points  $(k - 1)$  (2, 1) and (4, 5) lie on a line? (Ans:-  $k = 1$ )
- Find the area of triangle having following Co-ordinates (a,  $a^2$ ) (b,  $b^2$ ) (c,  $c^2$ )  
(Ans:-  $\frac{1}{2} [(b-c) (a-b) (c-a)]$ )
- If the vertices of a triangle are (1, -3) (4, p) and (-9, 7) and its area is 15 sq. Unit. Find value of p.

## QUESTION BANK

CLASS:- X

SUBJECT:- SOCIAL SCIENCE

### ECONOMICS

#### **I. Each question carry one marks:-**

1. What is infant mortality rate?
2. What is the most important component for comparing different countries?
3. Define life expectancy.
4. What is per capita income?
5. What is barter system?
6. Name the organisation which supervises the functioning of formal sources of credit.
7. Name two modern forms of money.
8. What is the most essential feature of barter system?

#### **II. Each question carry three marks:-**

5. Distinguish between developed and under-developed countries.
6. How do women engaged in paid jobs fulfil mix of goals? Explain.
7. What is the criteria to determine of adults are undernourished?
8. Distinguish between traditional and modern forms of money.
9. Explain three limitations of barter system.
10. The rupee is widely accepted as a medium of Exchange. Explain.

#### **III. Each question carry five marks:-**

8. Mention any five aspects of comparison of development between different countries.
9. Explain five limitations of the per capita income criteria of development.
10. Explain the term 'Development'. How is it linked with sustainability? Explain with example.
11. Who supervises the functioning of banks? In what ways is the supervision done.
12. Explain SHGs (Self help groups) in detail.
13. Most of the poor households are still dependant on informal sources of credit. Explain.

### GEOGRAPHY

1. To which state is black soil predominantly confined? Mention some features of the soil.
2. Write one nutrient that is found to be deficient in alluvial soil.
3. What is resource planning?
4. What are natural resources?
5. What are biotic resources?
6. What are abiotic resources?
7. What do you mean by conservation of natural resources?
8. Write two characteristics each of 'Khaddar' and 'bhangar' soil.
9. Give two characteristics of laterite soil.
10. What is degraded land? Which are the factor responsible for degradation of land?
11. Why is there need for resource planning?
12. How is black soil formed? Where is this soil found in India?
13. Describe any six measures adopted to control land degradation in different areas of our country.
14. Write a short note on land conservation measures.

15. Mention any four characteristics of black soil.
16. Explain the classification of resources on the basis of exhaustibility.
17. What is meant by land degradation? Suggest any two measures to solve the problem of land degradation.
18. Explain any three steps involved in the resources planning in India.
  - (a) What is rainwater harvesting?
  - (b) “The multipurpose river valley projects are called the new temples of Modern India.” Why?
  - (c) What are the objectives of the rainwater harvesting?
  - (d) Mention some points which should be kept in mind for the efficient management of water.
  - (e) What factors are responsible for the scarcity of water India?
  - (f) How may the multipurpose river valley projects become harmful for the country? Explain with four examples.
  - (g) Name any four cereal crops of India.
  - (h) Name the two states leading in the production of coffee India.
  - (i) Name two agricultural season of India. Name one major cereal crop of each season.
  - (j) What is subsistence farming? Write any four features of subsistence farming.
  - (k) What is intensive farming? Write some features of intensive farming.
  - (l) Describe various technological and institutional reforms, which led to green and white revolution in India.
  - (m) Give any three features of Zaid season.
  - (n) Which crop is known as the “golden fiber”? Explain two geographical conditions essential for the cultivation of this crop. Mention any four uses.

### **POLITICAL SCIENCE**

1. ‘Power sharing is desirable.’ Give two reasons.
2. Which are the two major social groups in Sri Lanka?
3. Mention the two major ethnic groups of Belgium.
4. What is majoritarianism?
5. What do you understand by community government?
6. What is civil war?
7. ‘Power sharing is the basic spirit of democracy.’ Justify.
8. What is coalition government?
9. Give one example of power sharing in India.

### **HISTORY**

**NOTE:- Use sheets to complete all the question answers and make one folder and submitted.**

1. When and in which city did the Jallianwala Bagh incident occur?
2. Explain new economic and political situation created in India during the First World War.
3. How was Civil Disobedience Movement different from the Non-Cooperation Movement? Explain.
4. Explain the contribution of folklore, folk songs and paintings in strengthening nationalism during 1870s.
5. Explain the new economic and political situations, created during the First World War in India.

6. Explain the circumstances in which Non-Cooperation Movement gradually slowed down in cities.
7. Mention three main proposals with reference to Non-Cooperation Movement as suggested Gandhi.
8. Who wrote 'Vande mataram'? When was it written?
9. Why did Mahatma Gandhi perceive 'Salt' as a powerful symbol that unite the nation?

### **PROJECT WORK**

1. Prepare project on different topics:-
  - (a) Disaster management
  - (b) Popular struggles and movement
  - (c) Money and credit

### **MAP SKILLS**

1. On the outline political map of India, mark and locate the following dams:-
 

(a) Bhakra Nangal	(b) Tungabhadra	(c) Mettur
(d) Ramagundam	(e) Nagrjuna	(f) Rihand
  
2. On an outline political map of India, mark:-
 

(a) Alluvial Soil	(b) Black Soil	(c) Laterite Soil
(d) Desert Soil		
  
3. On an outline political map mark:-
 

(a) wheat	(b) Rice	(c) Tea
(d) Coffee	(e) Cotton	(f) Jute
(g) Rubber		
  
4. For location and labelling/ Identification on outline Political Map of India
  - (i) Indian National Congress Session: Calcutta (Sep. 1920), Nagpur (Dec. 1920) Madras 1927, Lahore 1929.
  - (ii) Important Centres of Indian National Movement (Non-Cooperation and Civil Disobedience Movement)
 

(a) Champaran (Bihar)	:	Movement of Indigo Planters
(b) Kheda (Gujarat)	:	Peasant Satyagraha
(c) Ahmedabad (Gujrata)	:	Cotton Mill Workers Satagraya
(d) Amritsar (Punjab)	:	Calling off the NCM.
(e) Chauri Chaura (UP)	:	Calling off the NCM.
(f) Bardoli (Gujarat)	:	No tax campaign.
(e) Dandi (Gujarat)	:	Civil disobedience Movement.

## QUESTION BANK

CLASS:- X

SUBJECT:- HINDI

- 1 कक्षा में करवाए गए पाठ:- 1, 2, 5, 8, 9, 10, 11, 12, 13 क्षितिज के और पाठ कृतिका: माता का आंचल, जार्ज पंचम की नाम, साना साना हाथ जोड़ि। पढ़े और प्रश्न उत्तर याद करें। पाठ ध्यानपूर्वक तीन-चार बार पढ़े। व्याकरण के पाठ रस, वाच्य, वाक्य पद-परिचय की लिखित दोरहाई करें।

### पत्र लिखें

- 1 अपने क्षेत्र में पेयजल मिलने की शिकायत करते हुए अपने जिले के स्वास्थ्य अधिकारी को पत्र लिखें।
- 2 नगर में बढ़ती भीड़-भाड़ के कारण परिवहन की जटिल समस्या के हल के लिए सड़कों का और अधिक चौड़ा किए जाने पर की आवश्यकता पर बल देते हुए अपने राज्य के मुख्यमंत्री को पत्र लिखिए।
- 3 अपने क्षेत्र में बिजली संकट से उत्पन्न कठिनाईयों का वर्णन करते हुए दैनिक जीवन पत्र के संपादक को पत्र लिखिए।
- 4 स्वास्थ्य विभाग के लापरवाह रवैये के कारण खाद्य-पदार्थों में मिलावट की समस्या गंभीर होती जा रही है। विभाग के निदेशक के नाम पत्र लिखकर इस समस्या की ओर उनका ध्यान आकर्षित कीजिए। सभी पत्रों के फोरमेंट याद करें।
- 5 बड़े भाई की ओर से छोटे भाई को कुमित्रों से सावधान करते हुए पत्र लिखिए।

### निबंध

नोट:- याद करें

- 1 वनों से पर्यावरण संरक्षण
- 2 विज्ञापन और हमारा जीवन
- 3 प्रदूषण की समस्या
- 4 किसी त्योहार का वर्णन करें
- 5 मेरा प्रिय खेल
- 6 विद्यार्थी और अनुशासन
- 7 जीवन में नैतिक शिक्षा का मूल्य
- 8 समस्या से संबंधित
- 9 लोकोक्तियों से संबंधित।

### विज्ञापन

नोट:- लिखें और याद करें और 25 शब्दों में लिखें

- 1 अपने पुराने मकान का विवरण देते हुए उसकी बिक्री के लिए 25 शब्दों में विज्ञापन तैयार करके लड़के या लड़की की शादी के लिए विज्ञापन लिखें।
- 2 गुमशुदा की तलाश पर विज्ञापन लिखें। इसके अलावा टी. वी. चैनलों से देखकर पाँच सुन्दर, बढ़िया, आकर्षक विज्ञापन लिखें।
- 3 किन्हीं 15 पत्रों के फोरमेंट लिखें।



# HOLIDAYS HOME WORK

## CLASS – XI arts

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date. (2) Comprehension – WS (1 – 10) (3) Module – 3 (Notice WS 32, 33) (4) Module – 4 (Narrative WS 75 – 76) (5) Module – 6 (WS – 100 1 – 6), (WS – 103 11 – 19)
MATHS	Revise whole syllabus which is done in the class and do extra questions from any book.
PUNJABI	(1) ਲੇਖ:- ਭਾਰਤ ਦੇ ਕੌਮੀ ਤਿਉਹਾਰ, ਸਾਡੇ ਰੀਤੀ ਰਿਵਾਜ, ਵਿਦਿਆਰਥੀ ਅਤੇ ਫੈਸ਼ਨ, ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਅਤੇ ਕੁਦਰਤੀ ਕਰੋਪੀਆਂ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (2) ਸੰਪਾਦਕ ਨੂੰ ਰਿਪੋਰਟ ਲਿਖਣ ਲਈ ਪੱਤਰ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (3) ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਇਆ ਗਿਆ ਸਿਲੇਬਸ (Revise)
ECONOMICS	Revise work / chapter done in class and make project file given according to Roll numbers.
POL. SCIENCE	Learn whole syllabus done in the class.
I.P	L. No.:- 1 & 2 learn and write my Sql queries on practical file.
PHY. EDUCATION	Ch – 1, 2 & 3 write and learn . Complete Practical file
FINE ARTS	Draw 10 still life and five landscape in your drawing file and do shading with charcoal pencil or shading pencils (2b, 4b & 6b)

# HOLIDAYS HOME WORK

## CLASS – XI COMMERCE

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date. (2) Comprehension – WS (1 – 10) (3) Module – 3 (Notice WS 32, 33) (4) Module – 4 (Narrative WS 75 – 76) (5) Module – 6 (WS – 100 1 – 6), (WS – 103 11 – 19)
MATHS	Revise whole syllabus which is done in the class and do extra questions from any book.
PUNJABI	(1) ਲੇਖ:- ਭਾਰਤ ਦੇ ਕੌਮੀ ਤਿਉਹਾਰ, ਸਾਡੇ ਰੀਤੀ ਰਿਵਾਜ, ਵਿਦਿਆਰਥੀ ਅਤੇ ਫੈਸ਼ਨ, ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਅਤੇ ਕੁਦਰਤੀ ਕਰੋਪੀਆਂ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (2) ਸੰਪਾਦਕ ਨੂੰ ਰਿਪੋਰਟ ਲਿਖਣ ਲਈ ਪੱਤਰ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (3) ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਇਆ ਗਿਆ ਸਿਲੇਬਸ (Revise)
ECONOMICS	Project file and Revise work / chapter done in class.
ACCOUNTANCY	Chapter No.:- 1, 2, 3, 4, 6, 7, & 8 Learn & complete all assignments accordingly.
B. STUDIES	Complete all assignments of L – 2 & L – 3 in notebooks and learn whole syllabus of Periodic Test (i.e L- 1 and L – 2)
I.P	L. No.:- 1 & 2 learn and write my Sql queries on practical file.
PHY. EDUCATION	Ch – 1, 2 & 3 write and learn . Complete Practical file
FINE ARTS	Draw 10 still life and five landscape in your drawing file and do shading with charcoal pencil or shading pencils (2b, 4b & 6b)

## HOLIDAYS HOME WORK

### CLASS – XI MEDICAL & NON-MEDICAL

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date. (2) Comprehension (BBC Complete) – WS (1 – 10) (3) Module - 3 Notice WS (32, 33) (4) Module – 4 Narratives WS (75 - 76) (5) Module – 6 WS - 100 (1 - 6) WS – 103 (11 – 19)
MATHS	Revise whole syllabus which is done in the class and prepared for periodic test and do extra questions from any book.
PHYSICS	(1) Solved and unsolved numerical of following units (a) Unit and dimensions (b) Errors (c) Kinematics (d) Laws of motion (e) Work power energy
CHEMISTRY	(1) Make project based on different topic (2) Chapter – 1 assignment is given. (3) Learn the periodic test syllabus.
BIOLOGY	(1) Do all practical's in your file. (2) Make assignment on topic Animal kingdom. (3) Learn periodic test syllabus.
I.P	L. No. 1, 2 learn and write mysql queries on practical file
FINE ARTS	Draw 10 still life and five landscape in your drawing file and do shading with shading pencil or charcoal pencils (2B, 4B, 6B)
PHY. EDUCATION	Physical education – Ch – 1, 2, 3 write and learn and complete practical file.

# HOLIDAYS HOME WORK

## CLASS – XII ARTS

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date (2) Comprehension – WS (1 – 10) (3) Note Making WS (21 - 24) (4) Notice Writing WS (39, 40, 41) (5) Poster Making WS (60, 61, 62)
MATHS	Revise whole syllabus which is done in the class and also prepared for Periodic Test.
PUNJABI	(1) ਕਾਵਿ ਯਾਤਰਾ:- 1 ਤੋਂ 8 ਤੱਕ ਕਵੀਆਂ ਦੀਆਂ ਕਾਵਿ-ਰਚਨਾਵਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਾਹਿਤ ਵਿਆਖਿਆ (Learn and Revise) (2) ਕਥਾ ਜਗਤ:- 1 ਤੋਂ 8 ਤੱਕ ਦੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ਾ ਵਸਤੂ (Learn) (3) ਨਾਵਲ:- ਗੁਆਚਿਆ ਮੁੰਡਾ ਨਾਵਲ - ਪੜ੍ਹੋ ਅਤੇ ਵਿਸ਼ਾ-ਵਸਤੂ, ਕਥਾਨਕ, ਪਾਤਰ-ਚਿਤਰਨ:- ਘੋਗਾ, ਬਾਬਾ ਜੀ, ਘੋਗੇ ਦੀ ਮਾਂ (Learn) (4) ਵਿਆਕਰਨ:- ਮੁਹਾਵਰੇ (ਟ ਤੋਂ ਵ ਤੱਕ) (Learn), ਵਿਸ਼ਰਾਮ ਚਿੰਨ, ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖੋ, ਸ਼ਬਦ ਜੋੜਾਂ ਦੇ ਨਿਯਮ (Do practice & learn question answers) ਸੂਫੀ ਕਾਵਿ ਦਾ ਇਤਿਹਾਸ ਅਤੇ ਅਧੁਨਿਕ ਕਾਵਿ ਦਾ ਇਤਿਹਾਸ, ਨੋਟਿਸ ਅਤੇ ਇਸ਼ਤਿਹਾਰ ਲਿਖਣ ਦਾ ਅਭਿਆਸ। (5) ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ (ਕੋਈ ਪੰਜ) (Learn and write) (6) ਲੇਖ:- ਧਰਤੀ ਤੇ ਵੱਧ ਰਹੀ ਤਪਸ਼, ਭਾਰਤੀ ਅਰਥ ਵਿਵਸਥਾ, ਸੜਕੀ ਦੁਰਘਟਨਾਵਾਂ, ਵਿਦਿਆਰਥੀ ਅਤੇ ਰਾਜਨੀਤੀ (Learn and write)
ECONOMICS	Learn whole syllabus and Project file
POL. SCIENCE	Learn whole syllabus done in the class and prepare for Periodic Test.
SOCIOLOGY	(1) Learn whole syllabus and complete all the notes topic wise. (2) Complete Project Work for Practical Examination according to topics given by CBSE.
PHY. EDUCATION	Ch – 1, 2 & 3 write and learn . Complete Practical file
FINE ARTS	(1) Draw 10 still life (In charcoal and oil pastel) (2) Draw 10 landscape (Any media not in pencil shading) (3) Learn Rajasthani Miniature Paintings.

## HOLIDAYS HOME WORK

### CLASS – XII COMMERCE

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date (2) Comprehension – WS (1 – 10) (3) Note making - WS (21 – 24) (4) Notice writing - WS (39, 40, 41) (5) Poster making - WS (60, 61, 62)
MATHS	Revise whole syllabus which is done in the class and prepared for periodic test.
PUNJABI	(1) ਲੇਖ:- ਭਾਰਤ ਦੇ ਕੌਮੀ ਤਿਉਹਾਰ, ਸਾਡੇ ਰੀਤੀ ਰਿਵਾਜ, ਵਿਦਿਆਰਥੀ ਅਤੇ ਫੈਸ਼ਨ, ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਅਤੇ ਕੁਦਰਤੀ ਕਰੋਪੀਆਂ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (2) ਸੰਪਾਦਕ ਨੂੰ ਰਿਪੋਰਟ ਲਿਖਣ ਲਈ ਪੱਤਰ (ਲਿਖੋ ਅਤੇ ਯਾਦ ਕਰੋ) (3) ਜਮਾਤ ਵਿੱਚ ਕਰਵਾਇਆ ਗਿਆ ਸਿਲੇਬਸ (Revise)
ECONOMICS	Learn whole syllabus and project file
ACCOUNTANCY	(1) Prepare Periodic Test Syllabus (L-1 & 2) (2) Do practice of L – 1, 2 & 3 from Vol – I and L- 1, 2 & 3 from Vol. III i.e financial statement. (3) Complete your project work assigned by the teacher.
B. STUDIES	(1) Learn and revise all the chapters done in the class. (2) Complete your assignments regarding 1 to 5 all lessons (NCERT questions) (3) Complete two projects given in the class. According to topic assigned. (4) Learn periodic syllabus (L – 1, 2 & 3) (5) Work Experience:- Complete your assignment given by the teacher.
FINE ARTS	(1) Draw 10 still life (In charcoal & oil pastel) (2) Draw 10 landscape (Any media not in pencil shading) (3) Learn Rajasthani Miniature paintings.

## HOLIDAYS HOME WORK

### CLASS – XII MEDICAL & NON-MEDICAL

SUBJECT	HOME WORK
ENGLISH	(1) Learn whole syllabus done till date (2) Comprehension – WS (1 – 10) (3) Note making - WS (21 – 24) (4) Notice writing - WS (39, 40, 41) (5) Poster making - WS (60, 61, 62)
MATHS	Revise whole syllabus which is done in the class and prepared for periodic test.
PHYSICS	Numericals of following units (Solved / unsolved) (a) Electro statics (b) Current Electricity
CHEMISTRY	(1) Roll. No. 1 & 8 (Med) and 5, 12 & 19 Non-medical will make project on corrosion and rancidity. (2) Roll. No. 2 & 9 (Med.) and 6, 13 & 20 of Non-med. Will make project on preparation of Soyabean Milk and its comparison with Natural Milk. (3) Roll. No. 3 and 10 (Med.) and 7, 14 & 21 of Non-med. Will make project on food adulteration. (4) Roll. No. 4 (Med.) and 01, 8, 15 and 22 of Non-med. On formation of soap and detergent and foaming capacity and cleaning action. (5) Roll. No. 5 (Med.) and 02, 09, 16 and 23 of Non-Med. On comparative study of the rate of potato juice fermentation of wheat flour and gram flour. (6) Roll. No. 6 (Med.) and 03, 10, 17 & 24 Non-Med. Make project on effect of acid and base on tensile strength of nylon, cotton, silk and wool. (7) Roll. No. 07 (Med.) and 04, 11, 18, 25 (Non-med.) make project on rate of evaporation of different type of liquids
BIOLOGY	(1) Make your project file on different topics from whole syllabus. (2) Revise periodic test syllabus.

## QUESTION BANK

CLASS:- XII

SUBJECT:- MATHEMATICS

### I. Each question carry one marks.

1. If A is a square matrix of order 3 and  $|2A| = k|A|$ , then find the value of k.
2. If A is an invertible matrix, then prove that  $(A^{-1})^{-1} = (A^{-1})^{-1}$
3. If  $A(\text{adj } A) = \begin{bmatrix} 7 & 0 & 0 \\ 0 & 7 & 0 \\ 0 & 0 & 7 \end{bmatrix}$  then find  $|\text{adj } A|$
4. If A is an Invertible matrix of order  $3 \times 3$  and  $|A| = 9$ , then find  $\text{adj}(\text{adj } A)$
5. Let \* be a binary operation on N defined by  $a \times b = a^b$ . Find the value of  $(3 \times 2) \times 1$
6. If the binary operation and defined on R as  $a \times b = a + ab$  then find whether binary is commulative or not.
7. If the binary operation and is defined on Q as  $a \times b = 2a + b + ab$ ; for all a,  $b \in \mathbb{Q}$  find the value of:-  
(i)  $3 \times 4$                       (ii)  $2 \times 5$
8. If  $\times$  is a binary operation on the set R of real numbers defined by  $a \times b = a + b - 2$ , then find the identity element of the binary operation.
9. State the reason for following Binary operation and defined on teh set z of integers, to be not commutative.  $A \times b = ab^3$
10. Give an example of a spew-symmetric matrix of order 3.
11. Find the derivative of  $f(e^{\tan x})$  w.r.t 'x' at  $x = 0$ . It is given that  $f'(1) = 5$
12. Find the maximum value of :-  
$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 + \sin\theta & 1 \\ 1 & 1 & 1 + \cos\theta \end{vmatrix}$$
13. If a is a square matrix such that  $A^2 - I$ , then find the simplified value of  $(A - I)^3 + (A + I)^3 - 7A$
14. Matrix  $A = \begin{bmatrix} 0 & 2b & -2 \\ 3 & 1 & 3 \\ 3a & 3 & -1 \end{bmatrix}$  is given to be symmetric, find values of a and b.
15. For what values of k, the system of linear equations :-  
 $x + y + 2z = 2$   
 $2x + y - z = 3$   
 $3x + 2y + kz = 4$  has a unique solution?
16. If for any  $2 \times 2$  square matrix A,  $A(\text{adj } A) = \begin{bmatrix} 8 & 0 \\ 0 & 8 \end{bmatrix}$  then write the value of  $|A|$
17. Determine the value of 'k' for which the following function is continous at  $x = 3$   
$$F(x) = \begin{cases} \frac{(x+3)^2 - 36}{x-3}, & x \neq 3 \\ k, & x = 3 \end{cases}$$
18. If  $x \in \mathbb{N}$  and  $\begin{vmatrix} x+3 & -2 \\ -3x & 2x \end{vmatrix} = 8$  then find the value of x.

## II. Each question carry two marks.

1. Prove that the diagonal elements of a skew symmetric matrix are zeros.
2. If  $y = \tan^{-1} \frac{5x}{1-6x^2}$ ,  $-\frac{1}{\sqrt{6}} < x < \frac{1}{\sqrt{6}}$  then prove that  $\frac{dy}{dx} = \frac{2}{1+4x^2} + \frac{3}{1+9x^2}$
3. If  $y = \sqrt{\tan x} + \sqrt{\tan x} + \sqrt{\tan x} + \dots$  then find  $\frac{dy}{dx}$
4. If  $A = \begin{bmatrix} 3 & 2 & a \\ c & b & -2 \\ 5 & -d & 6 \end{bmatrix}$  is a symmetric matrix, then find the value of a,b,c,d
5. Show that a skew-symmetric matrix of odd order is always singular.
6. If  $y = \tan^{-1} \left( \frac{\cos x}{1+\sin x} \right)$ ,  $x \in \left( -\frac{\pi}{2}, \frac{\pi}{2} \right)$ , find  $\frac{dy}{dx}$
7. If  $A = \begin{bmatrix} \cos x & -\sin x \\ \sin x & \cos x \end{bmatrix}$ , then for what value of  $\alpha$  when A is an identity matrix?
8. If A is a skew symmetric matrix of order 3, then prove that  $|A| = 0$

## III. Each question carry four marks.

1. Solve that  $f(x) = \begin{cases} 3x - 2 & \text{if } x < 1 \\ 2x^2 - x & \text{if } 1 < x < 2 \text{ is continuous at} \\ 5x - 4 & \text{if } x > 2 \end{cases}$   $x = 2$
2. If  $\sin y = x$  in  $(a+y)$ , prove that  $\frac{dy}{dx} = \frac{\sin^2(a+y)}{\sin a}$
3. If  $A = \begin{bmatrix} 1 & -1 \\ 2 & -1 \end{bmatrix}$ ,  $B = \begin{bmatrix} a & 1 \\ b & -1 \end{bmatrix}$  and  $(A+B)^2 = A^2 + B^2$  find a and b
4. Differentiate the following function w.r.t x:  $x^{\sin x} + (\sin x)^{\cos x}$
5. If  $A = \begin{bmatrix} 2 & 3 \\ -1 & 2 \end{bmatrix}$  and  $f(x) = x^2 - 4x + 7$  then show that  $f(A) = 0$ , Hence find  $A^5$ .
6. If  $f(x)$  is defined by the following:-
 
$$f(x) = \begin{cases} \frac{\sin(a+1)x + \sin x}{x}, & \text{if } x < 0 \\ c, & \text{if } x = 0 \\ \sqrt{x+bx^2} - \sqrt{x}, & \text{if } x > 0 \end{cases}$$
 Is continuous at  $x = 0$ , find the values of a, b and c.
7. If  $A = \begin{bmatrix} 1 & -2 \\ 2 & 1 \end{bmatrix}$  then using  $A^{-1}$ , solve the following system of equation:
 
$$\begin{cases} x-2y = -1 \\ 2x+y = 2 \end{cases}$$
8. Discuss the differentiability of the function
 
$$F(x) = \begin{cases} 2x - 1, & x < \frac{1}{2} \\ 3 - 6x, & x \geq \frac{1}{2} \end{cases} \text{ at } x = \frac{1}{2}$$
9. For what value of k is the following function continuous at  $x = -\frac{\pi}{6}$ ?
 
$$F(x) = \begin{cases} \frac{\sqrt{3} \sin x + \cos x}{x + \pi/6}, & x \neq -\frac{\pi}{6} \\ k, & x = -\frac{\pi}{6} \end{cases}$$
10. If  $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$  then show that  $A^2 - 4A - 5I = 0$  and hence find  $A^{-1}$

11. If  $A = \begin{pmatrix} 2 & 0 & -1 \\ 5 & 1 & 0 \\ 0 & 1 & 3 \end{pmatrix}$ , then find  $A^{-1}$  using elementary row operations.

12. Using the properties of determinants, solve the following for x:

$$\begin{vmatrix} x+2 & x+6 & x-1 \\ x+6 & x-1 & x+2 \\ x-1 & x+2 & x+6 \end{vmatrix} = 0$$

13. If  $x^x + x^y + y^x = a^b$  then find  $\frac{dy}{dx}$

14. Let  $A = \begin{bmatrix} -2 & 1 \\ 3 & 4 \end{bmatrix}$  then verify the following:-

$A(\text{adj } A) = (\text{adj } A)A = |A|I$ , where I is the identity matrix of order 2.

15. Using properties of determinants, prove that

$$\begin{vmatrix} 1 & 1+p & 1+p+q \\ 3 & 4+3p & 2+4p+3q \\ 4 & 7+4p & 2+7p+4q \end{vmatrix} = 1$$

16. Without expanding the determinant at any stage, prove that:-

$$\begin{vmatrix} 0 & 2 & -3 \\ -2 & 0 & 4 \\ 3 & -4 & 0 \end{vmatrix} = 0$$

17. Let  $A = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix}$ ,  $B = \begin{bmatrix} 4 & -6 \\ -2 & 4 \end{bmatrix}$  then compare AB.

Hence solve the following system of equations:-  $2x + y = 4$ ,  $3x + 2y = 1$

18. If the following function is differentiable at  $x = 2$ , then find the values of a and b.

$$f(x) = \begin{cases} x^2, & \text{if } x \leq 2 \\ ax + b, & \text{if } x > 2 \end{cases}$$

19. Let  $y = (\log x)^x + x^x \cos x$ , then find  $\frac{dy}{dx}$

20. If  $x = a \sin 2t (1 + \cos 2t)$  and  $y = b \cos 2t (1 - \cos 2t)$ , find the values of  $\frac{dy}{dx}$  at

$$t = \frac{\pi}{4} \text{ and } t = \frac{\pi}{3}$$

21. The monthly incomes of Aryan and Babbar are in the ratio 3:4 and their monthly expenditures are in the ratio 5:7. If each saves Rs 15,000 per month, find their monthly income using matrix method. This problem reflects which value?

22. Find the values of p and q, for which

$$f(x) = \begin{cases} \frac{1 - \sin^3 x}{3 \cos^2 x}, & \text{if } x < \frac{\pi}{2} \\ p, & \text{if } x = \frac{\pi}{2} \text{ is continuous at } \frac{\pi}{2} \\ \frac{q(1 - \sin x)}{(\pi - 2x)^2}, & \text{if } x > \frac{\pi}{2} \end{cases}$$

23. A typist charges Rs 145 for typing 10 English and 3 Hindi pages, while charges for typing 3 English and 10 Hindi pages are Rs 180. Using matrices, find the charges of typing one English and one Hindi page separately. However typist charged only Rs 2 per page from a poor student Shyam for 5 Hindi pages. How much less was charged from this poor boy? Which values are reflected in this problem?

24. Using properties of determinants, prove that

$$\begin{vmatrix} a^2+2a & 2a+1 & 1 \\ 2a+1 & a+2 & 1 \\ 3 & 3 & 1 \end{vmatrix} = (a-1)^3$$

25. Find matrix A s-t  $\begin{pmatrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{pmatrix} A = \begin{pmatrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{pmatrix}$

26. If  $x^y + y^x = a^b$ , then find  $\frac{dy}{dx}$

27. Find  $\frac{dy}{dx}$  if  $y = \sin^{-1} \left[ \frac{6x - 4\sqrt{1-4x^2}}{5} \right]$

**IV. Each question carry six marks :-**

1. Let x be a binary operation defined on  $Q \times Q$  by  $(a, b) \times (c, d) = (ac, b + ad)$ , where Q is the set of rational numbers. Determine, whether x is commulative and associative. Find the identity element for x and the invertible elements of  $Q \times Q$ .

2. Using properties of determinants, prove that

$$\begin{vmatrix} (a+b)^2 & c & c \\ c & (b+c)^2 & a \\ a & a & (c+a)^2 \\ b & b & a \end{vmatrix} = 2(a+b+c)^3$$

3. If  $p \neq 0, q \neq 0$  and  $\begin{vmatrix} p & q & p\alpha + q \\ q & r & q\alpha + r \\ p\alpha + q & q\alpha + r & 0 \end{vmatrix} = 0$  then

using properties of determinants, prove that at least one of the following statements is true?

(a) p, q, r are in G.P

(b)  $\alpha$  is a root of the equation  $px^2 + 2qx + r = 0$

4. Using properties of determinants, prove the following:-

$$\begin{vmatrix} a-b-c & 2a & 2a \\ 2b & b-c-a & 2b \\ 2c & 2c & c-a-b \end{vmatrix} = (a+b+c)^3$$

5.  $\begin{vmatrix} a^2 & bc & c^2+ac \\ a^2+ab & b^2 & ac \\ ab & b^2+ab & c^2 \end{vmatrix} = 4a^2b^2c^2$

6. Let  $A = \mathbb{R} \times \mathbb{R}$  and  $x$  be a binary operation on  $A$  defined by  $(a, b) \times (c, d) = (a + c, b + d)$ . Show that  $x$  is commutative and associative. Find the identity element for  $x$  on  $A$ . Also find the inverse of every element  $(a, b) \in A$ .

7. Using properties of determinants, prove that

$$\begin{vmatrix} (x+y)^2 & zx & zy \\ zx & (z+y)^2 & xy \\ zy & xy & (2+x)^2 \end{vmatrix} = 2xyz(x+y+z)^3$$

8. If  $A = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 2 & 0 & 3 \end{bmatrix}$  and  $A^3 - 6A^2 + 7A + kI_3 = 0$ . Find  $k$

9. Prove that  $\begin{vmatrix} yz-x^2 & zx-y^2 & xy-z^2 \\ zx-y^2 & xy-z^2 & yz-x^2 \\ xy-z^2 & yz & zx-y^2 \end{vmatrix}$  is divisible by  $(x+y+z)$  and hence find the quotient

10. Using elementary transformations, find the inverse of the matrix  $A = \begin{bmatrix} 8 & 4 & 3 \\ 2 & 1 & 1 \\ 1 & 2 & 2 \end{bmatrix}$  and the use it to solve the following system of linear equations:-

$$8x + 4y + 3z = 19$$

$$2x + y + z = 5$$

$$x + 2y + 2z = 7$$

11. Determine the product of  $\begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix}$  and  $\begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$

Use it to solve the system of equations  $x + y + z = 4$ ,  $x - 2y - 2z = 9$ ,  $2x + y + 3z = 1$