

# KENDRIYA VIDYALAYA NSG MANESAR

## SUMMER-BREAK HOLIDAYS HOMEWORK-2020

### (SECONDARY & SR. SECONDARY CLASSES VI-XII)



## CLASS VI:- MATHEMATICS

Instructions / Guidelines :

### **General Guidelines for Students:**

1. Do the homework in the HOMEWORK notebook.
2. Presentation carries marks.
3. Number the questions in serial order.
5. Draw neat diagrams wherever necessary and label the parts neatly and clearly.
6. Project to be done in a separate project file.
7. Your project file needs to have a cover, introduction, content and conclusion.

We wish you enjoy your holidays but at the same time also keep in touch with mathematics by revising and completing some interesting activities.

Your holiday home work has two parts Part A and Part B.

Part A consists of projects and Part B consists of revision of what you had studied.

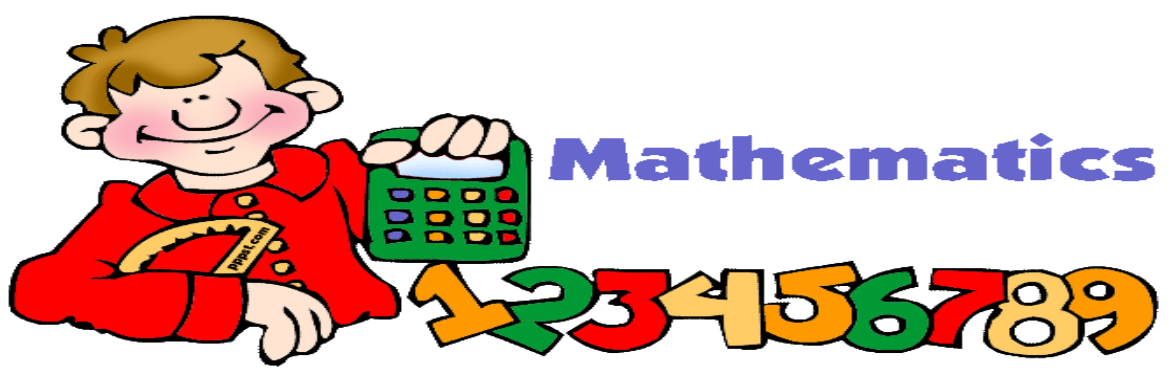
Presentation	4 Marks
Introduction and conclusion	4 Marks
Cover	2 Marks
Content / Working	10 Marks

**Part A:** Project.

**Part B:** Revision sheet

### **Part A**

(Select any two projects from the list provided and work on them. Make a project folder and submit it with proper care.)



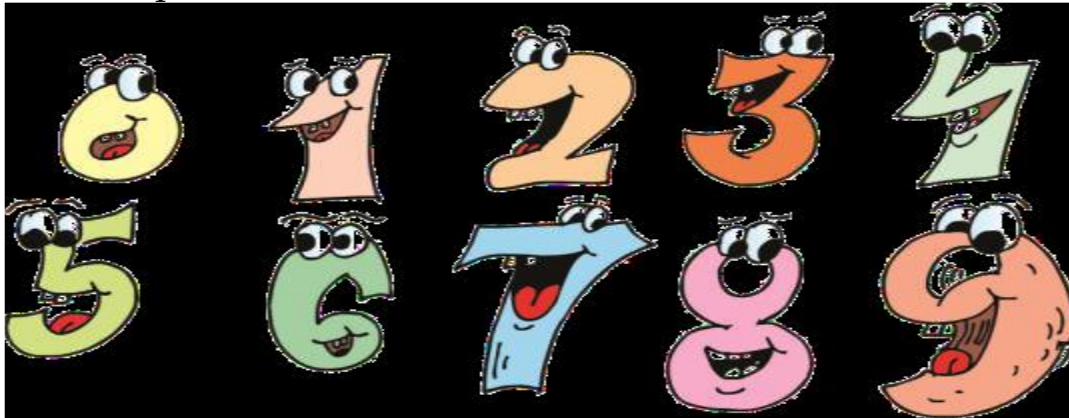
1. Collect population of states of India or of 10 large cities or of 10 countries and write them in words/Indian/ International both.
2. Make a story about Roman numbers and Indo-Arabic numbers.

### 3. Cartoon Making

(Interdisciplinary Activity with Fine Arts)

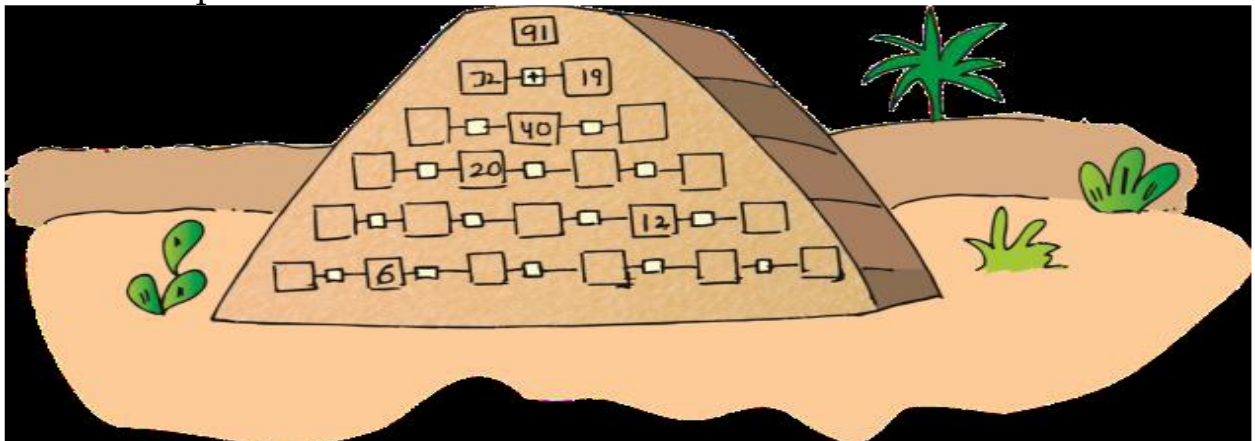
Take A-4 Size coloured sheet. Make cartoons of first 10 whole numbers.

For example:



### 4. Number Pyramid

Look at the picture below:

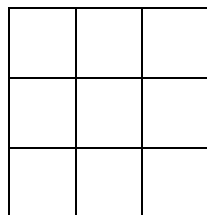


- (i) There are 21 big squares for the numbers and 15 small squares for the operation signs.
- (ii) Each big square must have a number that is the sum or difference of the numbers on the squares just below it. The small squares must carry the necessary operation signs.

(iii) Some of the big squares and a small square are filled with numbers and a sign. Use these as hints to fill the rest of the big squares and the small squares to complete the pyramid.

### 5. Magic Square

Draw a magic square such that sum of each row, each column and each diagonal is 15. Dimension of square should be 3 x 3 units.



### Part B

(All questions are compulsory. Do it in your homework notebook.)

#### Revision Sheet

#### Some Suggestions from teacher's desk:

Holiday is a time to explore the world beyond text books and mundane theories...there is a mathematician within you. Application of the concept so taught can be done in an enjoyable manner. Open your wings and explore the world unknown, unseen and undiscovered...all the best!



#### Fill in the blanks:

- 1) Mathematics is the study of .....
- 2) 1,2,3,4,5..... numbers are known as .....
- 3) 0,1,2,3,4 ..... numbers are known as .....
- 4) ... -4,-3,-2,-1,0, +1, +2,+3,+4 ..... are known as .....  
or.....
- 5) Zero is neither .....or.....
- 6) One million four hundred and eight thousand, nine hundred and fifty-seven ..... (Write in numerals)
- 7) Seventy lakh, eighty three thousand seven hundred and nine. .... (Write in numerals)
- 8) The place value of a digit depends on its ..... in the number in relation to other numbers.
- 9) The face value is of a digit in a number is the .....itself.
- 10) If a number's face value and place value are same, then it is in the..... place .

#### State True or False:

- 1) Zero is the smallest integer.

- 2) Every integer has a successor as well as predecessor.
- 3) An integer is less than all those integers which lie to its left.
- 4) An integer is greater than all the integers that lie to its left.
- 5) To add an integer move to the right on the number line.
- 6) To subtract a negative number move to the right on the number line.(Write in numerals)
- 7) We can add the negative numbers.
- 8) -6 is the opposite of 6
- 9) Division by zero is not defined.
- 10) In subtraction and division, order of operations, is not important.

1.Solve :-

i) Find  $3+5$  using number line.

ii) Find by using suitable property

i)  $8 \times 475 \times 125$       ii)  $225 \times 102$

2. Match the following

i) Commutative property over addition

a)  $a \times (b+c) = a \times b + a \times c$

ii) Commutative property over multiplication

b)  $a+(b+c) = (a+b)+c$

iii) Distributive property of multiplication over addition      c)  $a \times (b \times c) = (a \times b) \times c$

3.Find the product using distributive property of multiplication over addition or subtraction.

(a)  $3682 \times 105$

(b)  $568 \times 88 + 568 \times 12$

( c )  $3111 \times 998$

( d )  $7132 \times 105 - 7132 \times 5$

4. Find the smallest number of 5- digit which is exactly divisible by 12.

5. A taxi driver filled his car petrol tank with 45 liters of petrol on Saturday. On Sunday, he filled his tank with 55 liters of petrol. If the petrol costs Rs 49 per liter, how much did he spend on petrol?

6. There are 8 baskets, each having 7 apples, If 3 apples are taken away from each baskets, how many apples in total are left in the baskets.

## CLASS VI:- SCIENCE

I.COLLECT INFORMATIONS ABOUT DIFFERENT TYPES OF FIBERS LIKE:

1. NYLON    2.SILK    3. COTTON    4.JUTE    5. COIR

2. COLLECT SAMPLES OF DIFFERENT FIBRES AND PASTE THEM IN YOUR SCRAP BOOK.

3. MAKE A PATTERN OF WEAVING USING GLAZED PAPER.

4. TO MAKE SPROUTS USING BLACK GRAM AND GREEN GRAM.WRITE THE RECEIPE OF IT IN YOUR SCRAP BOOK.

5. MAKE CHARTS/A4 SIZE ON THE FOLLOWING TOPICS.

1. CONSERVATION OF PLANTS

2. CONSERVATION OF WATER

6. LEARN CHAPTERS 1,2 FOR CLASS TEST.

7. DIFFERENTIATE BETWEEN:-

i) PARASITES AND SAPROPHYTES

ii) AUTOTROPHS AND HETEROTROPHS

iii) CONDUCTION, CONVECTION AND RADIATION

## CLASS VI:- SOCIAL STUDIES

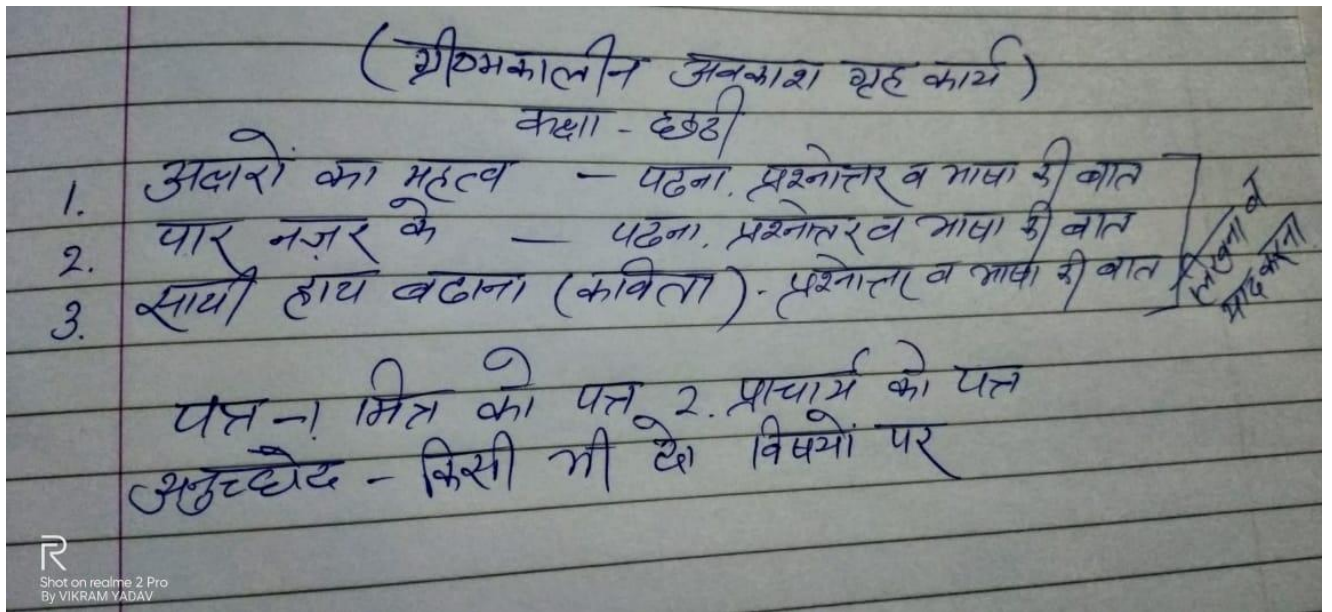
Take a practical notebook and do the following work:

1. Paste the new political map of India and write the name of Indian States and Union Territories
2. On an outline map of World locate Continents and Ocean.
3. Make a list of different Indian states with the local food eaten there( minimum 10 states)
4. Surf the internet and write about any two festivals celebrated in our country. Support your text with coloured pictures.
5. On the outline map of India locate the rivers:  
Ganga, Brahmaputra, Indus, Narmada, Tapi, Mahanadi, Godavari, Krishna, Kaveri
6. Read and learn CH 1 from each History, geography, civics and complete the written work in your notebook..

## CLASS VI:- ENGLISH

1. Read any 'Panchtantra' story book and write a paragraph describing what you liked the most about the stories. Also learn any story by heart and tell the story in the class in your own words.
2. Learn the tenses (Present, Past and Future) and write 2 examples of each tense from any chapter of 'Honeysuckle' book
3. Listen to English news regularly on TV and write total 10 headlines in your note books
4. Revise the syllabus covered during April-May
5. Write the recipe of your favourite dish and paste/draw the related pictures.

## CLASS VI:- HINDI



## CLASS VI:- SANSKRIT

## ग्रीष्मकालीन अवकाश का गृह कार्य (2020-21)

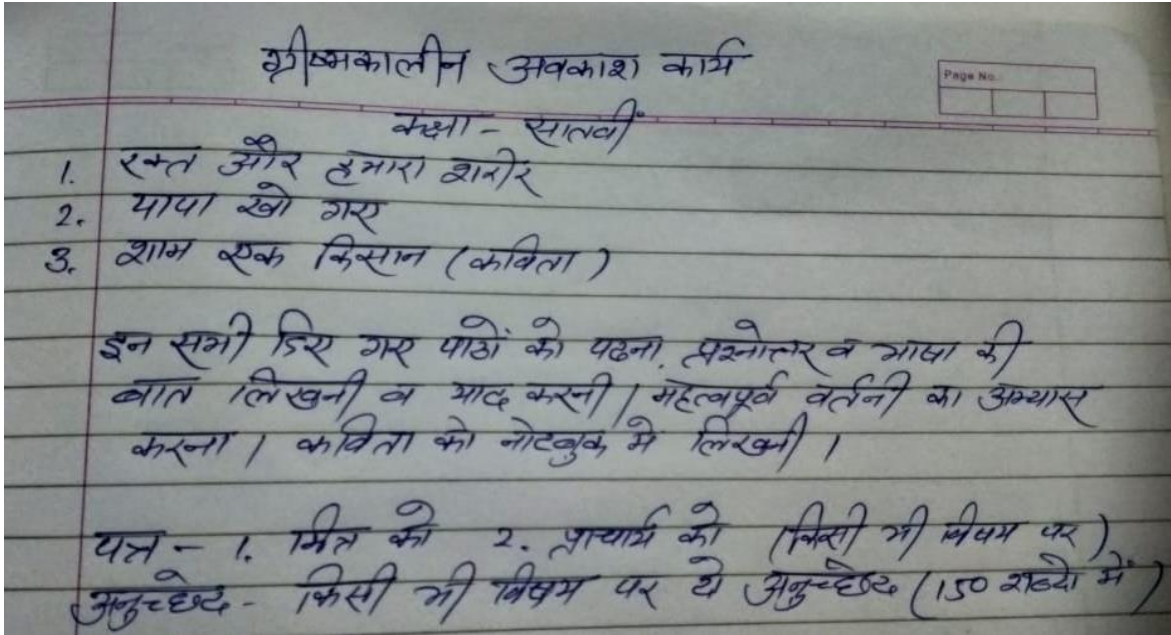
### कक्षा - 6 (संस्कृत)

- 1 - बालक , बालिका और पुस्तक के शब्द रूप लिखकर याद करें।
- 2 - पठ् धातु के रूप लट् , लृट् , और लङ् लकारों में लिखकर याद करें।
- 3 - पाँच शब्द पुल्लिंग, पाँच शब्द स्त्रीलिंग, और पाँच शब्द नपुंसकलिंग के चित्र सहित लिखें ।
- 4 - वर्ण विच्छेद व वर्ण संयोजन के दस-दस उदाहरण लिखिए ।
- 5 - 1 से 10 तक संख्या संस्कृत में लिखकर याद करें ।
- 6 - संस्कृत प्रतिज्ञा लिखकर याद करें ।

## CLASS VII:- ENGLISH

1. Read any 'Panchtantra' story book and write a paragraph describing what you liked the most about the stories. Also learn any story by heart and tell the story in the class in your own words.
2. Learn the tenses and write 5 examples of each tense from 'Honeycomb' book.
3. Listen to English news regularly on TV & write total 15 headlines in your note books.
4. Revise the syllabus covered during April-May
5. Write the recipe of your favourite dish and paste/draw the related pictures.

## CLASS VII:- HINDI



## CLASS VII:- SANSKRIT

### कक्षा- 7 (संस्कृत)

- 1 - राम, लता, पुष्प, गुरु, किम् (पुल्लिंग) , किम् (स्त्रीलिंग) , किम् (नपुंसकलिंग) के शब्द रूप लिखें और याद करें।
- 2 - पठ्, गम् धातु के रूप सभी लकारों में लिखें और याद करें।
- 3 - सुभाषितानि पाठ का हिन्दी अनुवाद संस्कृत सहित लिखें और याद करें।
- 4 - 1 से 20 तक संख्या संस्कृत में लिखकर याद करें ।
- 5 - उद्यान का चित्र बनाकर उससे पाँच वाक्य संस्कृत में बनाइए ।
- 6 - संस्कृत प्रतिज्ञा लिखकर याद करें।

## CLASS VII:- SOCIAL STUDIES

Take a practical notebook and do the following work:

1. Paste the new political map of India and write the name of Indian States and Union Territories.
2. Surf the internet and write in 200-250 words about B.R. Ambedkar
3. Do the map work of CH 2 History, draw components of environments( fig 1.1 geography)
4. Draw an ideal environment where you would love to live. Draw the picture of ideal environment(Activity Ch 1 geography)
5. Read and learn CH 1 from each History, geography, civics and complete the written work in your notebook.

## CLASS VII:- SCIENCE

1. MAKE ANY TWO CHARTS (FULL SIZE) FROM THE FOLLOWING TOPICS
  - a) HUMAN DIGESTIVE SYSTEM
  - b) PHOTOSYNTHESIS
  - c) INSECTIVOROUS PLANT
  - d) LIFE CYCLE OF SILKWORM
  - e) LIFE CYCLE OF BUTTERFLY
2. MAKE MCQ ON THE FOLLOWING TOPICS:-
  - a) NUTRITION IN PLANTS
  - b) NUTRITION IN ANIMALS
3. PREPARE A PROJECT WORK FROM CHAPTER HEAT.(ANY ONE MODEL ON TRANSMISSION OF HEAT)
4. MAKE A REPORT ON:-
  - a) GASTROENTERITIS
  - b) COVID 19
5. LEARN CHAPTER 1,2 AND 3 FOR CLASS TEST.
6. PREPARE FOR QUIZ-
  - a) NUTRITION IN PLANTS
  - b) NUTRITION IN ANIMALS
  - c) FIBRE TO FABRIC

## CLASS VII:- MATHEMATICS

**(Do HHW IN SEPARATE NOTEBOOK)**

1. Do **regular practice** of chapter 1 and 2
2. Learn short cut methods/tricks to find product of two numbers, square of numbers etc.
3. Try to understand the properties of addition and subtraction of integers.  
Like
  - i) closure property
  - ii) Associative property
  - iii) Additive identity
  - iv) Additive inverse

Also verify these properties for multiplication and division of integers.

4. Collect some mathematical riddles/ puzzles and solve them
5. Do mastery over four basic operations, that is addition, subtraction, multiplication and division . This can only be achieve by doing regular practice. So daily solve five sums of addition, subtraction, multiplication and division.

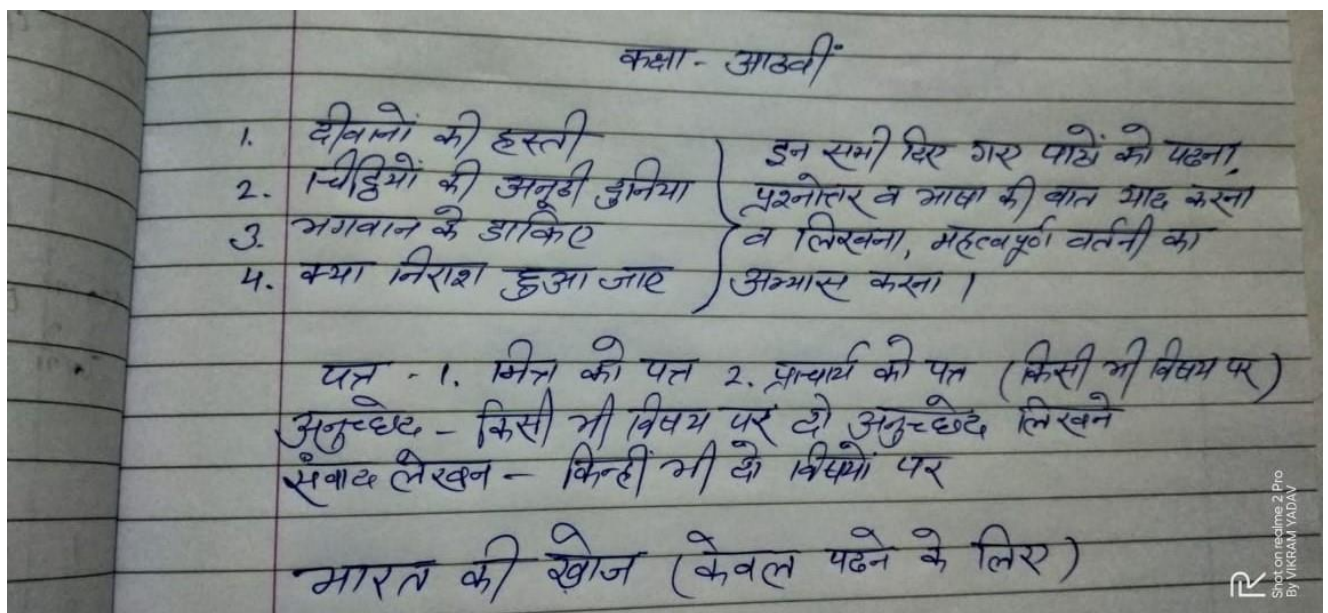
### PROJECT WORK

1. On a chart paper define with examples the different types of fractions like,
  - i) Proper fraction
  - ii) Improper fraction
  - iii) Mixed fraction
  - iv) Equivalent fraction
  - v) Like fraction
  - vi) Unlike fraction
2. On a chart paper draw DECIMAL PLACE VALUE CHART ( SEE FROM TEXT BOOK ) and represent any five decimal numbers on it

### CLASS VIII:- ENGLISH

1. Write a paragraph on "Safety measures & precautions during the times of Covid-19"
2. Write an imaginary story in about 200-250 words. Also, give it a suitable title.
3. Revise the syllabus covered during April-May.
4. Write a letter to your friend describing how you are spending your summer vacation.
5. Listen to English news regularly on TV and write 20 headlines in your note books. (Total=20)
7. Write the recipe of your favourite dish and paste/draw the related pictures.

### CLASS VIII:- HINDI



### CLASS VIII:- SANSKRIT



### कक्षा- 8 (संस्कृत)

- 1 - पठ्, गम्, हस्, वद् धातु के रूप सभी लकारों में लिखें और याद करें।
- 2 - राम, लता, पुष्प, गुरु, किम् (पुल्लिंग), किम् (स्त्रीलिंग), किम् (नपुंसकलिंग) अस्मद् और युष्मद् के शब्द रूप लिखें और याद करें।
- 3 - सुभाषितानि पाठ का हिन्दी अनुवाद संस्कृत सहित लिखें और याद करें।
- 4 - 1 से 30 तक संख्या संस्कृत में लिखकर याद करें ।
- 5 - कोई दो चित्र बनाकर उनसे पाँच-पाँच वाक्य संस्कृत में बनाइए ।
- 6 - संस्कृत प्रतिज्ञा लिखकर याद करें ।

## **CLASS VIII:- MATHEMATICS**

### Instructions / Guidelines:

#### General Guidelines for Students:

1. Do the homework in the HOMEWORK notebook.
  2. Presentation carries marks.
  3. Number the questions in serial order.
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- We wish you enjoy your holidays but at the same time also keep in touch with mathematics by revising and completing some interesting activities.  
Your holiday home work has two parts Part A and Part B.  
Part A consists of projects and Part B consists of revision of what you had studied.

Presentation	4 Marks
Introduction and conclusion	4 Marks
Cover	2 Marks
Content / Working	10 Marks

**Part A:** Project.

**Part B:** Revision sheet

### Part A

(Select any two projects from the list provided and work on them. Make a project folder and submit it with proper care.)

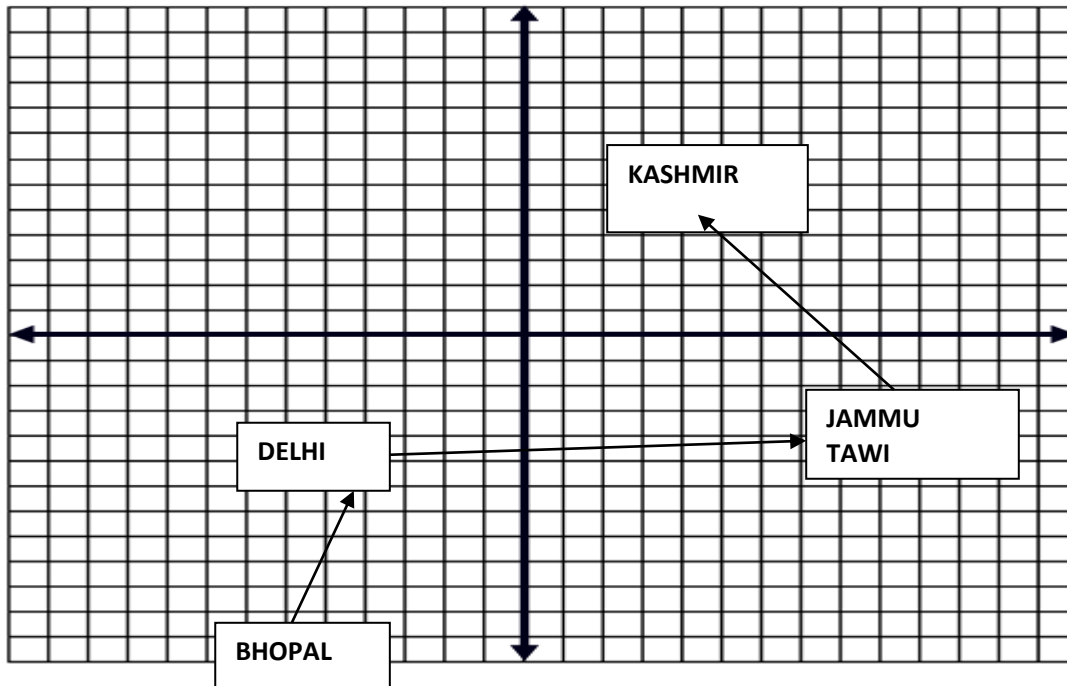


1. Make a project on the nets of the following shapes; also verify the Euler's formula for each shape.
  - (a) Triangular Prism
  - (b) Cube
  - (c) Cylinder
  - (d) Tetrahedron

(e) Pentagonal Prism

2. Statistics: Make a comparative study of the scores of various teams of IPL, and represent it in the form of bar graph. Do it from quarter finals to finals.

3. You have been provided with an amount of 1 lakh. Prepare a vacation plan for 4 days and 3 nights for 4 people. Keep in mind every single detail and also prepare the map of the place visited. A sample has been given below.



4. Conduct a survey of your friends to find which kind of movie they like the most; Represent the information in the form of a bar graph and pie chart.

### Part B

(All questions are compulsory. Do it in your homework notebook.)

### Revision Sheet

#### Some Suggestions from teacher's desk:

Holiday is a time to explore the world beyond text books and mundane theories...there is a mathematician within you. Application of the concept so taught can be done in an enjoyable manner. Open your wings and explore the world unknown, unseen and undiscovered...all the best!



Q1. Represent the following on number line:

- a)  $19/2$
- b)  $-16/3$
- c) 3.4
- d) 0.5

Q2. Find 10 rational numbers between  $3/5$  and  $5/12$  using L.C.M. method.

- Q3. The sum of two rational numbers is  $13/5$ . If one of them is  $-3/2$ , find the other.
- Q4. Sachin got a prize money of Rs.1200. He spent  $2/3$  of the money on buying shoes for himself and gave  $1/4$  of the remaining money for charity. He also spent  $1/3$  of the remaining money to buy a gift for her friend. How much money is left with him?
- Q5. Verify associativity of multiplication of rational numbers for the following:  
 a)  $1/2, 3/4, 5/6$       b)  $3/7, 5/6, 14/23$
- Q6. Find two rational numbers between the following using average method:  
 a) -2 and -3                      b)  $2/3$  and  $13/14$
- Q7. Using appropriate property find the value of:  
 $-2/3 \times 5/6 - 2/3 \times 4/7$
- Q8. Simplify the following expression and write the additive and multiplicative inverse of the result obtained:  
 $4/3 \times 1/2 \div 3/2$
- Q9. Find the value of x, if :  
 a)  $3^{27} \div 3^{14} = 3^{2x}$               b)  $(6/7)^{-4} \times (6/7)^{13} = (6/7)^{3x}$
- Q10. Expand the following numbers using exponential notation:  
 a) 23564.196                      b) 1983. 21003
- Q11. Which is greater?  
 a)  $2.5 \times 10^5$  or  $7.4 \times 10^{-5}$   
 b)  $1.9 \times 10^{-6}$  or  $1.2 \times 10^{-7}$
- Q12. Simplify the following and write the multiplicative inverse of the answer obtained:  
 $\{(-3)^4 \times (-3)^{-4}\} \div (-3)^4$
- Q13. A school collected Rs 2304 as fees from its students. If each student paid as many paise as there were students in the school, how many students were there in the school?
- Q14. The usual form of the number  $9 \times 100 + 7 \times 1$   
 (a) 97  
 (b) 9007  
 (c) 907  
 (d) 16
- Q15. A is a digit and  $3A18$  is a multiple of 6. Which of the following can be the value of A?  
 (a) 1 or 9  
 (b) 3 or 6  
 (c) 0 or 7  
 (d) 0 or 9
- Q16. Find the solution of  $2x - 3 = 7$ .
- Q17. What should be added to twice the rational number  $-\frac{7}{3}$  to get  $\frac{3}{7}$ ?
- Q18. Bansi has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs 77, how many coins of each denomination does he have?
- Q19. Deveshi has a total of Rs 590 as currency notes in the denominations of Rs 50, Rs 20 and Rs 10. The ratio of the number of Rs 50 notes and Rs 20 notes is 3:5. If she has a total of 25 notes, how many notes of each denomination she has?
- Q20. Present ages of Anu and Raj are in the ratio 4:5. Eight years from now the ratio of their ages will be 5:6. Find their present ages.
- Q21. How many diagonals does each of the following have?

(a) A convex quadrilateral (b) A regular hexagon (c) A triangle

Q22. What is a regular polygon?

State the name of a regular polygon of

(i) 3 sides (ii) 4 sides (iii) 6 sides

Q23. Find the number of sides of a regular polygon whose each exterior angle has a measure of  $45^\circ$ .

Q24. The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

Q25. State whether True or False.

- (a) All rectangles are squares
- (b) All rhombuses are parallelograms
- (c) All squares are rhombuses and also rectangles
- (d) All squares are not parallelograms.
- (e) All kites are rhombuses.
- (f) All rhombuses are kites.
- (g) All parallelograms are trapeziums.
- (h) All squares are trapeziums.

### **CLASS VIII:- SOCIAL STUDIES**

Q1 Paste The Five Pictures Each Of Natural Resource And Human Made Resources.

Q2 Draw Soil Profile And Factor Of Soil Formation In A Chart Paper.

Q3 Write A Short Note On Tipu Sultan "The Tiger Of Mysore".

Q4 Do Q5- Activity I & II On Page No.48 (NCERT Geography Book)

Q5 List Down The Fundamental Duties Mentioned In The Indian Constitution.

Q6 Mark The Following Countries On A World Map (Political) India, USA, CHINA, JAPAN, SRILANKA,

BANGLADESH, GERMANY, BRAZIL, AUSTRALIA, CANADA

**# Holiday home work is to be done in Social science note book.**

**Learn all question answers given to you through Online Classes/ Google classroom.**

### **CLASS VIII:- SCIENCE**

1. OBSERVE THE ROOTS OF A GRAM OR A PULSE. TRY TO OBSERVE THE ROOT NODULES AND DRAW ITS DIAGRAM.
2. COLLECT THE LABELS OF JAMS AND JELLIES. WRITE DOWN THE LIST OF CONTENTS PRINTED ON THE LABELS. ALSO WRITE THE NAME OF THE PRESERVATIVE USED IN THEM.
3. WHY ANTIBIOTICS SHOULD NOT BE OVER USED. PREPARE A SHORT REPORT. CONSULT A DOCTOR FOR THIS.
4. SHOW EXPERIMENTALLY THAT  $\text{CO}_2$  TURNS LIME WATER MILKY.
5. SURVEY TO BE DONE ON PULSE POLIO, COVID 19 AND DIFFERENT TYPES OF PLASTICS.
6. QUIZ TO BE CONDUCTED ON THE FOLLOWING :-
  - (a) MICROORGANISMS FRIEND AND FOE.
  - (b) METALS AND NON METALS.

7. COLLECT INFORMATIONS ABOUT:-

EDWARD JEENER

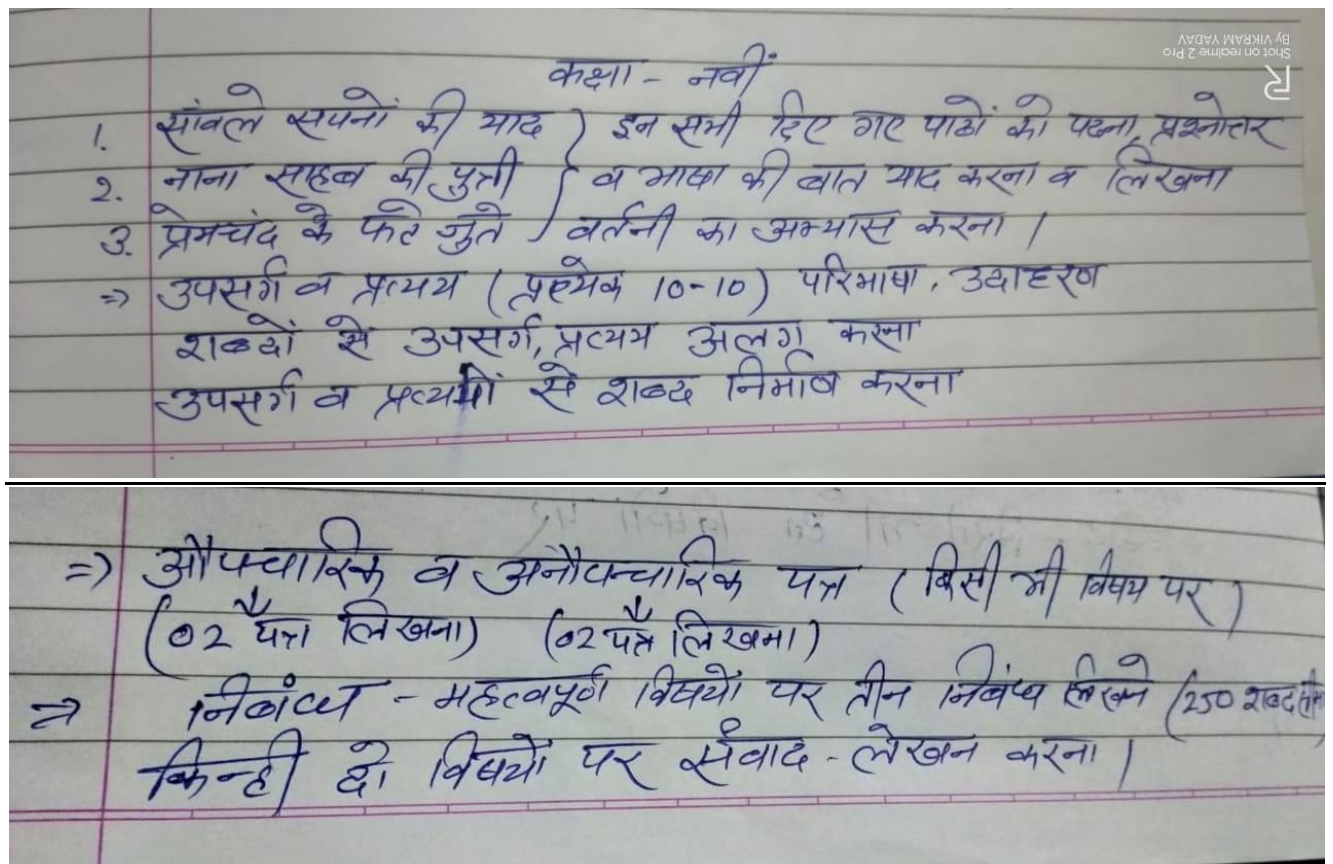
LOUIS PASTEUR

8. PREPARE MCQs (AT LEAST 10 EACH) FROM THE CHAPTERS:-1, 2 AND 4. (NCERT TEXTBOOK)

### CLASS IX:- ENGLISH

1. Write an article for the school magazine on "Safety measures & precautions during the times of Covid-19". Also paste/draw the related pictures.
2. Write an imaginary story in about 120-150 words. Also, give it a suitable title.
3. Revise the syllabus covered during April-May.
4. Make diary entry of any five days. Write the diary pages in your note-books.
5. Listen to English news regularly on TV and write 10 headlines in your note books.  
(Total=10)

### CLASS IX:- HINDI



### CLASS IX:- SOCIAL STUDIES

1) Make a Disaster Management Project on one of the following topics.

**Roll No. 1 to 19-**

Topics: Natural Disaster – Earthquake, Landslides, Floods, Droughts and Cyclones. (Any 2 disasters)

**Roll No. 20 to 38 - Topics**

Topics: Manmade Disaster – Fire, Rail or Road or Air Accident, Terrorist attacks and Epidemics. (Any 2 disasters)

.Give meaning, description, causes, harmful effects, mitigation strategies and recent happenings

- . Project must be supported with newspaper clipping, collage work, internet material, magazine articles and photographs.
  - .The project must include page of contents, introduction, and bibliography.
  - . Project should have 15 – 17 pages and it should be HAND MADE.
- 2) Read and learn CH 1 from each History, geography, political science, economics and complete the written work in your notebook.**

## CLASS IX:- MATHEMATICS

- (1) Complete chapter 2 and write in your notebook
- (2) Write a write-up /project on any one mathematician from internet or any book about 5 pages.
- (3) Simplify  $(x+y+z)^2 - (x+y-z)^2$
- (4) Factorize  $9x^2+y^2+z^2 -6xy+2y-6zx$
- (5) Simplify  $12\sqrt{18} - 6\sqrt{20}-3\sqrt{50} + 8\sqrt{45}$
- (6) If  $x=\sqrt{3}-2$  find the value of  $(x + \frac{1}{x})^3$
- (7) If  $x= 2+\sqrt{5}$  find the value of  $(x^2 - \frac{1}{x^2})$
- (8) Represent  $\sqrt{4.2}$  on number line
- (9) Show that  $(x^{a-b})^{a+b} \cdot (x^{b-c})^{b+c} \cdot (x^{c-a})^{c+a} = 1$
- (10) If  $\frac{5-\sqrt{3}}{5+\sqrt{3}} = a + b\sqrt{3}$  find a and b.
- (11) Evaluate using identity  $(999)^3$
- (12) Find the value of  $x^3+y^3-12xy+64$  when  $X+Y= -4$  .
- (13) If the polynomial  $P(x) = x^4-2x^2+3x^2-9x+8$  is divided by  $(x-2)$ , it leaves a remainder 10 , find “a”.
- (14) The polynomial  $Kx^3 +3x^2-8$  and  $3x^3-5x+k$  are divided by  $x+2$ . If the remainder in each case is the same , find the value of k.
- (15) Simplify the following: (a)  $(\sqrt{5} - 4\sqrt{7})(\sqrt{7} + 3\sqrt{5})$  (b)  $(\sqrt{11} - 4)(\sqrt{2} + 3)$   
(c)  $(6\sqrt{5} - 2\sqrt{3})(3\sqrt{5} - 2\sqrt{5})$  (d)  $(11\sqrt{2} + \sqrt{2})(\sqrt{2} + 3\sqrt{2})$
- (16) Find the value of p and q if  
$$\frac{7 - \sqrt{3}}{7 + \sqrt{3}} + \frac{7 + \sqrt{3}}{7 - \sqrt{3}} = p - q\sqrt{3}$$

## CLASS IX:- SCIENCE

1. COLLECT INFORMATION ABOUT THE FOLLOWING:-
  - (a) ROBERT HOOKE
  - (b) M.S. SWAMINATHAN
  - (c) D.V. KURIEN
2. DRAW LABELLED DIAGRAM ON A WHITE CHART PAPER OR A4 SIZE SHEET SHOWING:-
  - (a) PLANTCELL (b)ANIMALCELL (c) NEURON (d) MITOCHONDRIA
  - (e) STOMATA
3. QUIZ TO BE CONDUCTED FROM THE CHAPTERS:-
  - (a) THE FUNDAMENTAL UNIT OF LIFE.
  - (b) MOTION
4. MAKE A SURVEY REPORT ON:-

- (a) COVID 19  
(b) AIDS
5. MAKE MCQ AT LEAST 10 FROM THE FOLLOWING CHAPTER:-  
(a) MATTER IN OUR SURROUNDINGS  
(b) IS MATTER AROUND US PURE
6. PRACTICE NUMERICAL PROBLEMS GIVEN IN THE TEXTBOOK (NCERT) SOLVED AS WELL AS UNSOLVED. **CHAPTER MOTION**
7. PRACTICE THE DIAGRAMS OF DIFFERENT METHODS OF SEPRATING MIXTURES.

## **CLASS X:- MATHEMATICS**

Mathematics TOPIC: REAL NUMBERS

- A. Write these five math lab activity in Lab practical file  
Link is given here: <http://www.cbse.nic.in/mathlabx.pdf>
- To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.
  - To verify that the given sequence is an arithmetic progression by paper cutting and pasting method.
  - To verify that the sum of first  $n$  natural numbers is  $n(n + 1) / 2$ , that is  $\Sigma n = n(n + 1) / 2$ , by graphical method.
  - To verify the Basic Proportionality Theorem using parallel line board and triangle cut-outs.
  - To verify the Pythagoras Theorem by the method of paper folding, cutting and pasting
- B. Q1. Show that square of an odd positive integer is of the form  $8q + 1$ , for some positive integer  $q$ .
- Q2. If the HCF of 210 and 55 is expressible in the form  $210 \times 5 + 55y$ , find  $y$ .
- Q3. Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.
- Q4. Check whether  $5n$  can end with the digit 0 for any natural number  $n$ .
- Q5. If HCF of two numbers is 145 and their LCM is 2175. If one number is 725, find the other.
- Q6. Prove that  $5 + 2\sqrt{3}$  is an irrational number.
- Q7. After how many places of decimals, the decimal expansion of  $43 \frac{2}{45} \frac{3}{10}$  will terminate?
- Q8. State the fundamental theorem of Arithmetic.
- Q9. Using prime factorization, find the HCF and LCM of 72, 126 and 168. Also show that HCF  $\times$  LCM  $\neq$  product of the three numbers.
- Q10. Express each of the following as the product of its prime factors. (a) 6435 (b) 8085 (c) 2184

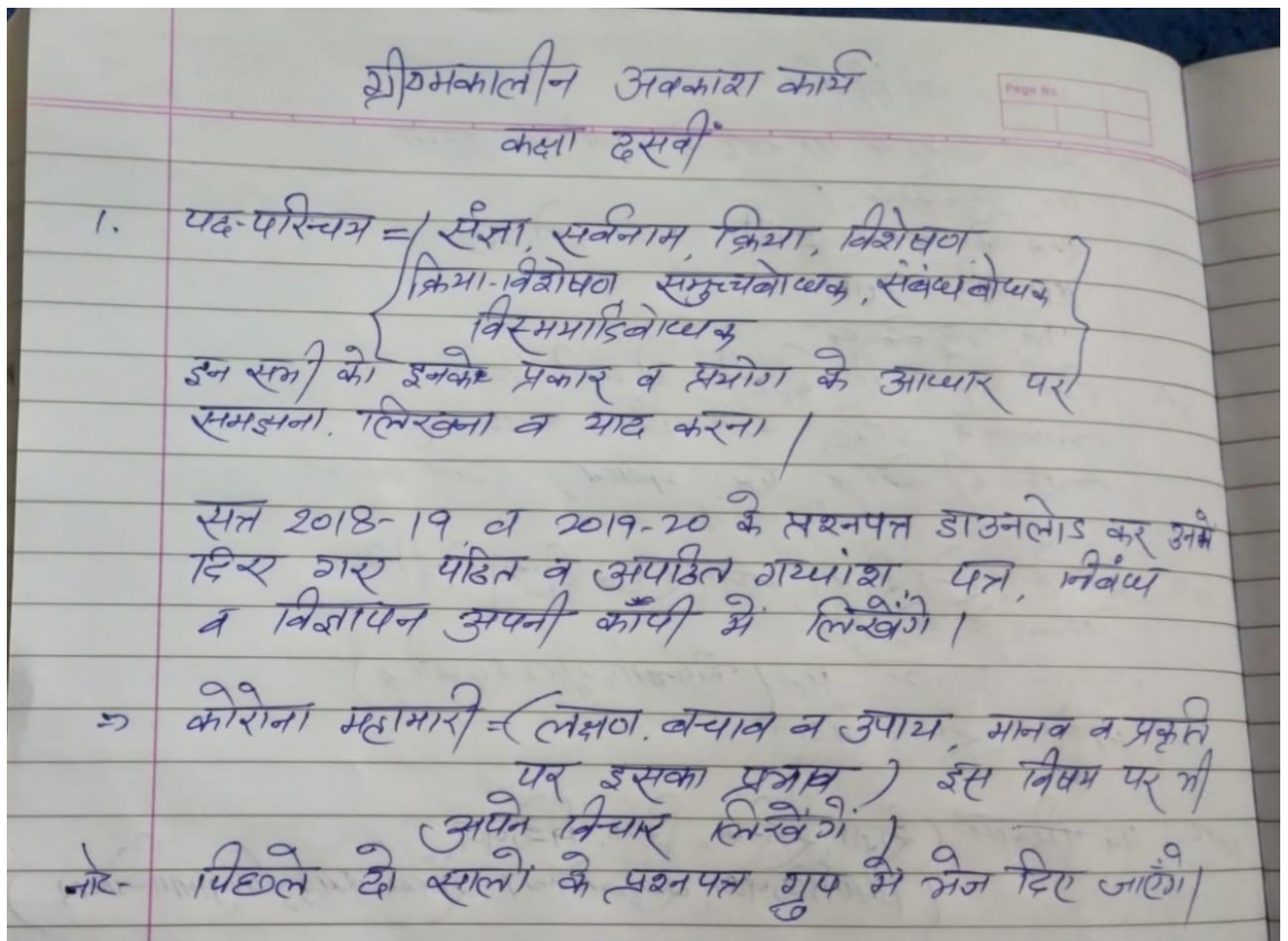
TOPIC: POLYNOMIALS

- Q1. If  $(x + k)$  is a factor of  $2x^2 + 2kx + 5x + 10$ , find  $k$ .
- Q2. If  $\alpha$  and  $\beta$  are the zeros of a polynomial  $p(x) = 3x^2 - 5x + 6$ , find (i)  $(\alpha / \beta) + (\beta / \alpha)$  (ii)  $\alpha^3 + \beta^3$
- Q3. Find all the zeroes of the polynomial  $f(x) = 2x^4 - 3x^3 - 5x^2 + 9x - 3$ , if two of its zeroes are  $\pm \sqrt{3}$ .
- Q4. Divide  $(3 - x + 2x^2 + x^3 - 3x^4)$  by  $(2 - x)$  and verify by division algorithm.
- Q5. If '1' is one of the zeroes of the polynomial  $p(x) = 7x - x^3 - 6$ . Find its other zeroes.
- Q6. Find the quadratic polynomial, sum and product of whose zeroes are 2 and  $-1$  respectively.
- Q7. Find the quadratic polynomial whose zeroes are  $2/3$  and  $-1/4$ .
- Q8. Find the polynomial whose zeroes are 2, 1 and  $-1$ . What is its degree?
- Q9. Find the polynomial whose zeroes are reciprocals of the zeroes of the polynomial  $2x^2 + 3x - 6$
- Q10. Find the ratio of the sum and product of the zeroes of the polynomial  $5x^2 + 2x - 10$ .

## CLASS X:- ENGLISH

1. Solve 10 CBSE sample papers. (Reading, Writing and Grammar sections). Write the answers in your note-books.
2. Write an imaginary story in about 200-250 words. Also, give it a suitable title.
3. Revise the syllabus covered during April-May.
4. Write an article for the school magazine in about 200-250 words on "Safety measures and precautions during the times of Covid-19". Also, paste the related pictures.
5. Read lessons 1-10 from "Footprints Without Feet" English book and write summary of each chapter in your note books.
6. Listen to English news regularly on TV and write 15 headlines in your note books.

## CLASS X:- HINDI



## CLASS X-B:- SOCIAL STUDIES

1. Make a project on Role of Gandhi in Indian National Movement  
Project must be supported with newspaper clipping, collage work, internet material, magazine articles and photographs
2. Read and learn CH 1 from each History, geography, political science, economics and complete the written work in your notebook.
3. Frame at least 10 short questions from each chapter.



## **CLASS X:- SCIENCE**

1. MAKE ANY TWO CHARTS (FULL SIZE) FROM THE FOLLOWING TOPICS
  - (a) HUMAN DIGESTIVE SYSTEM
  - (b) RESPIRATORY SYSTEM
  - (c) EXCRETORY SYSTEM
  - (d) NERVOUS SYSTEM
  - (e) STRUCTURE OF HUMAN HEART
2. MAKE MCQ ON THE FOLLOWING TOPICS:-
  - (a) CHEMICAL REACTIONS AND EQUATIONS
  - (b) LIGHT
  - (c) LIFE PROCESSES
3. PREPARE FOR QUIZ:-
  - (a) CHEMICAL REACTIONS AND EQUATIONS
  - (b) LIFE PROCESSES
4. MAKE A REPORT ON:-
  - (a) CARDIAC ARREST
  - (b) LUNG CANCER
  - (c) DIALYSIS
  - (d) COVID 19
5. WRITE ATLEAST FIVE EXAMPLES OF EACH TYPE OF REACTIONS AND BALANCE THEM.
6. PRACTICE THE NUMERICALS PROBLEMS BASED ON THE CHAPTER LIGHT.
7. DRAW AND PRACTICE THE RAY DIAGRAMS OF IMAGE FORMED BY
  - i) CONCAVE AND CONEX MIRROR. ii) CONCAVE AND CONVEX LENS.

## **Holidays Homework for Class XII-A (2020-21)**

### **ENGLISH CORE:- CLASSES XII A, B, C**

#### **HOTS QUESTIONS**

**Write and learn the answers of the following questions in about 150-200 words**

**The Last Lesson**

**Q. 1. Political enslavement leads to an identity crisis. Discuss with reference to *The Last Lesson*.**

**Q2. We always procrastinate and believe we can put off learning. This can be a hazard to learning. Explain with reference to Franz's situation in *The Last Lesson***

**Q3. What role did the parents and teachers play in the children's neglect of the French language.**

**Q4. 'M Hamel stood up, very pale, in his chair. I never saw him look so tall'. Why did M Hamel seem so tall to Franz that day?**

**Q5. Titles give us an insight into a story. Justify the title of the lesson."**

**D6. When people are enslaved as long as they hold fast to their language, It is asif they hold they hold the key to their prison." Illustrate.**

**Lost Spring**

**Q1. Food is more important for survival than an identity. How is this statement true in the lives of the rag pickers of Seemapuri?**

**Q2. Adults make promises they cannot fulfill. Explain with reference to the lesson, Lost Spring.**

**Q3. How in your opinion can Mukesh realize his dream?**

**Q4. Compare and contrast the characters of Mukesh and Saheb whose childhood seemed to be lost in the darkness of poverty.**

**Q5. "Few aero planes fly over Firozabad". What do you think the writer wants to convey through this?**

**Q.6 " The bangle makers of Firozabad make beautiful bangles and make everyone happy but they live and die in squalor." Illustrate with suitable examples from the text.**

**Q7. Does the title of the story " Lost Spring" appeals to you? Justify.**

### **Deep Water**

**Q1. Desire, determination, and diligence lead to success. Explain the value of these qualities in the light of Douglas's experience in ' Deep water'.**

**Q2. Why does Douglas as an adult recount a childhood experience of terror and his conquering of it? What larger meaning does he draw from this experience?**

**Q3. People say that failures are the stepping stones to success. They are the best teachers. Discuss in about 125 words with relation to Deep Water.**

**Q4. Douglas fully realized the truth of Roosevelt's statement, "All we have to fear is fear itself". How did this realization help him brush aside his fear and become an expert swimmer?**

**Q5. William Douglas's narrative skills, his vivid description of the incidents which created an aversion to water and how he overcame it helps the reader to connect to his experiences. Illustrate with examples from the lesson 'Deep Water'**

**Q.6 How did the swimming instructor build a swimmer out of Douglas?**

### **The Tiger King**

**Q1. *The Tiger King* is a reflection of the arrogance and whimsical nature of those in power. Illustrate your answer with examples from the text.**

**Q2. " In this manner the hundredth tiger took its final revenge upon the Tiger King." Comment.**

**3. Comment on the instances of irony used in the story.**

**4. How would you describe the Tiger King as a father, husband and a human being?**

### **The Third Level:**

1. The third level was Charley's temporary refuge from reality. Comment.

2. What do you infer from Sam's letter to Charley?

3. Apparent illogicality sometimes turns to be a futuristic projection. Discuss.

### **My Mother at 66 and An Elementary school Class room in slum**

1. Pick out the words and phrases in the poems having figure of speech.

2. Make a list of difficult terms or phrases used in both the poems.

### **Reading sec.**

1. Make notes on two unsolved note-making paragraphs.

2. Solve two unsolved reading comprehension paragraphs.

Write An Article/ Speech:(5 Articles and 5 Speech)

1. Together against the pandemic COVID 19

2. COVID-19 and its impact on our earth
3. Together against Corruption
4. India of my dreams
5. Plastic free India
6. Water conservation
7. Clean India
8. Importance of books/ Education
9. Women empowerment
10. Child Labour

2. WRITE 4 SAMPLES OF THE FOLLOWING

- NOTICE
- INVITATION
- POSTER. (A4 sheets)
- ADVERTISEMENT(2 COMMERCIAL and 2 CLASSIFIED)

3. WRITE A LETTER

- TO THE EDITOR
- FOR JOB APPLICATION
- OF COMPLAINT TO AUTHORITY

MAKING AN ENQUIRY TO AUTHORITY

### **HINDI:- CLASSES XII A, B, C**

1. भारत की खोज , लाख की चूड़ियां चिट्ठियों की अनोखी , दुनिया , कविता ध्वनि , दीवानों की हस्ती पाठ बस की यात्रा के प्रश्नोत्तर भाषा की बात कार्य पूरा करें एवं याद करें
2. अपने विद्यालय की प्राचार्या की तरफ से एक सूचना लिखिए जिसमें ग्रीष्मकालीन अवकाश के लिए विद्यालय बंद होने की बात की गई हो
3. अपने दादा को संपूर्ण बंदी के दौरान प्रधानमंत्री नरेंद्र मोदी द्वारा उठाए गए कदमों की प्रशंसा करते हुए पत्र लिखें तथा यह भी पता करें कि खेती-बाड़ी में क्या हो रहा है , प्रवासी मजदूरों की समस्याओं का निदान भी बताएं।
4. ग्रीष्मकालीन अवकाश की 50 प्रमुख खबरें लिखकर लाएं।
5. राष्ट्रीय एकता महानगरों की समस्याएं विषय पर निबंध लिखें।
6. व्याकरण किसे कहते हैं इसकी उपयोगिता को बताते हुए संज्ञा के विभिन्न भेद लिखें।
7. कोरो ना काल में आपने अपनी ग्रीष्मकालीन छुट्टियों का कैसे उपयोग किया संक्षिप्त में लिखें।
8. भारत की खोज पुस्तक के दो पाठ पढ़ें एवं 10 लघु प्रश्नोत्तर लिखें।

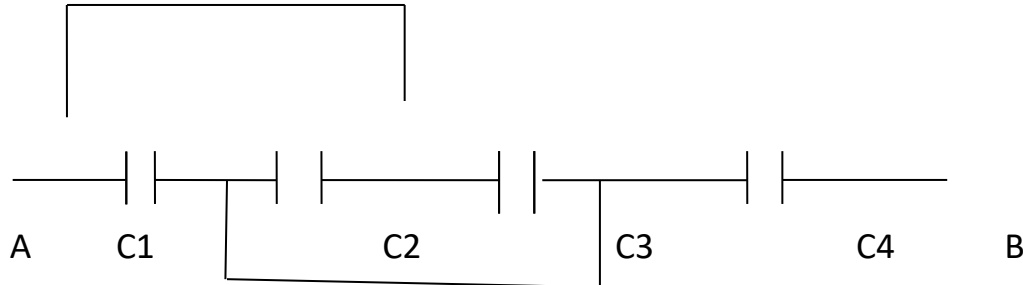
### **MATHS:- CLASSES XII A, B**

#### **Complete all exercise of chapter 3 (Matrices) and chapter 4(Determinants)**

### **PHYSICS**

- 1) Draw electric field lines for:

- i) Charge  $q > 0$
  - ii)  $q < 0$
  - iii) Two equal and opposite charges.
  - iv) Two equal and similar charges.
- 2) Two capacitor of capacitances  $2\mu\text{F}$  and  $2\mu\text{F}$  are connected first in series and then parallel. What is the ratio of their capacitances?
- 3). Calculate the equivalent capacitance between the points A and B in the combination shown below:



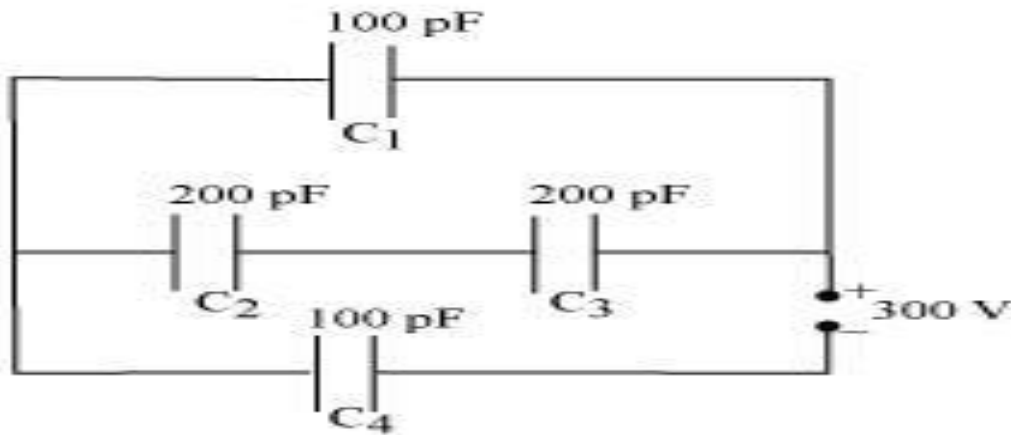
Given  $C_1 = 5\mu\text{F}$ ;  $C_2 = 10\mu\text{F}$ ;  $C_3 = 15\mu\text{F}$ ;  $C_4 = 30\text{Mf}$

- 4). Define electric dipole moment. What is its direction? Write its SI unit.
- 5). For what value of angle between dipole moment and electric field the dipole remain in (i) stable, (ii) unstable equilibrium?
- 6). Calculate the work done in rotating an electric dipole in Uniform electric field from  $90^\circ$  to an angle  $\theta$ .
- 7). State Gauss' law in electrostatics. Find electric field due to infinitely charged long straight uniformly charged wire of linear charge density  $\lambda$  at a given point using Gauss' law. Draw 'E' vs distance.
- 8). Find electric field at a point due to uniformly charged infinite plane sheet with surface charge density ' $\sigma$ '. Draw 'E' vs distance from sheet.
- 9). Derive the expression for an electric field due to an electric dipole at a point on axial line.
- 10). Derive the expression for an electric field due to an electric dipole at a point on equatorial line.
- 11). Show that the energy stored in a parallel plate capacitor is  $\frac{1}{2} CV^2$ . Hence derive the expression for energy density.
- 12). Obtain an expression for the capacitance of a parallel plate capacitor with a conductor in between the plates of the capacitor.
- 13). Obtain an expression for the capacitance of a parallel plate capacitor with a dielectric slab in between the plates of the capacitor.

14). Two fixed point charges  $+4e$  and  $+e$  are separated by a distance 'a', where should the third point charge

be placed for it to be in equilibrium.

15. Obtain the equivalent capacitance of the network in Fig. 2.35. For a 300 V supply, determine the charge and voltage across each capacitor.



16.(a) In a metre bridge [see NCERT Fig. 3.27], the balance point is found to be at 39.5 cm from the end A, when the resistor Y is of  $12.5 \Omega$ . Determine the resistance of X. Why are the connections between resistors in a Wheatstone or meter bridge made of thick copper strips?

(b) Determine the balance point of the bridge above if X and Y are interchanged.

(c) What happens if the galvanometer and cell are interchanged at the balance point of the bridge? Would the galvanometer show any current?

17.) NCERT Exercise problem no.1.8

18.) NCERT Exercise problem no.1.18

19). NCERT Exercise problem no.1.26

20). a) Define electric flux. Write its SI unit

b) A charge  $q$  is enclosed by a spherical surface of radius 'R'. If the radius is reduced to half, how would the electric flux through the surface change

21). Write an expression for the potential energy of two point charges  $q_1$  and  $q_2$ , separated by distance  $r$  in an electric field  $E$ .

22.) Derive an expression for the potential energy of a dipole in a uniform electric field. Discuss the conditions of stable and unstable equilibrium.

23). NCERT Exercise problem no.2.31.

24.) NCERT Exercise problem no.2.34.

25). NCERT Exercise problem no.2.37.

## Current Electricity

1). Draw the variation of resistivity with temperature for (i) Metals (ii) semiconductors and (iii) alloys.

2). What is change in resistivity of a conductor when it is (i) cut into half (ii) stretched to twice its length?

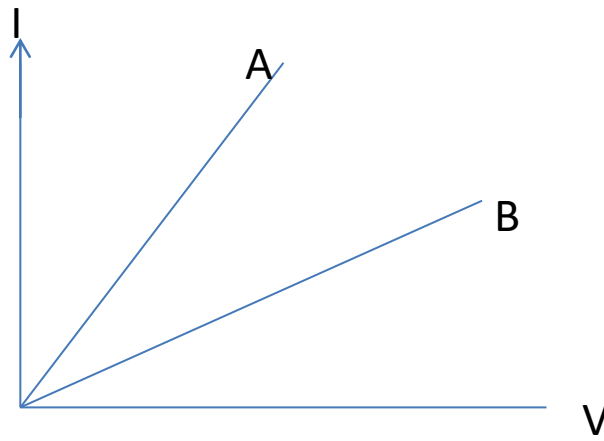
3). Write colour code for carbon resistors having resistance: (i)  $1 \Omega$  (ii)  $10 \Omega$  (iii)  $10 \text{ k}\Omega$ .

4). Draw the circuit diagram for comparing the emf's of two primary cell using potentiometer and write the formula used.

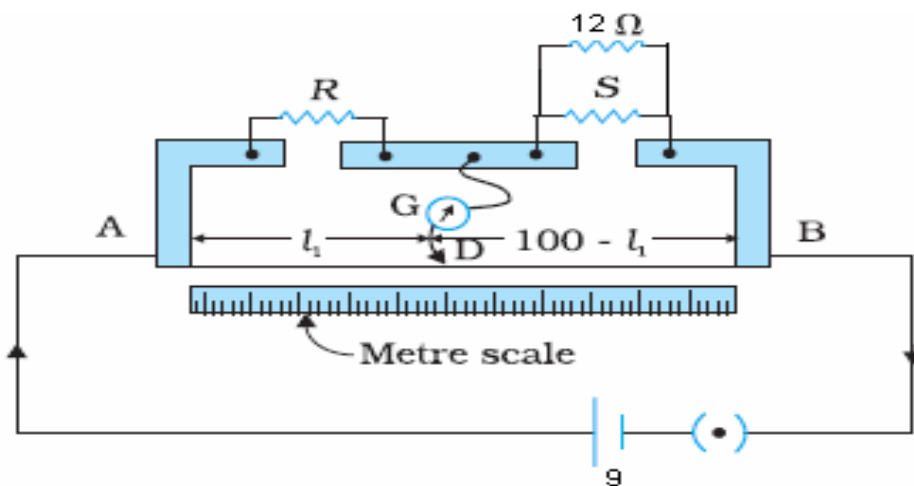
5). Draw the circuit diagram for determining the internal resistance of primary cell using potentiometer. Write the formula used.

6 ). Derive an expression for vector form of Ohm's Law.

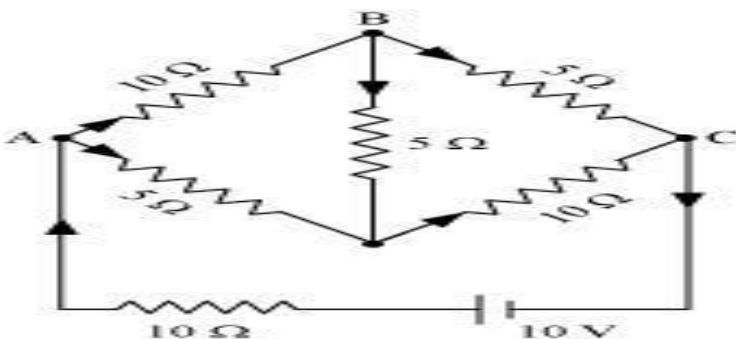
7). V- I graph of two metallic wires of same length and cross sectional area are given below. Which of these has higher resistance?



8). In a meter bridge, the null point is found at a distance of 40 cm from A. If a resistance of  $12 \Omega$  is connected in parallel with S, the null point occurs at 50.0 cm from A. Determine the values of R and S.



9). Determine the current in each branch of the network shown in fig 3.30:



- 10.) NCERT Exercise problem no 3.3
- 11) NCERT Exercise problem no 3.4
- 12) NCERT Exercise problem no 3.20
- 13.) NCERT Exercise problem no 3.21
- 14. Prepare MCQ in MS word, soft copy (one question per day) with hint & answer key  
Electric charge and Field ..... 11 MCQ

## CHEMISTRY

### SOLUTIONS

1. State Henry's law. Give its two applications.
2. H<sub>2</sub>S a toxic gas with rotten egg smell is used for qualitative analysis. If the solubility of H<sub>2</sub>S in water at STP is 0.195 m, calculate Henry's law constant.
3. Why Raoult's law is considered as a special case of Henry's law?
4. Why osmotic pressure is considered to be best colligative property to calculate molar mass of a polymer.
5. What is reverse osmosis give its applications.
6. What are minimum boiling and maximum boiling azeotropes, give examples.
7. Differentiate negatively deviating and positively deviating solutions.
8. 2 gram of benzoic acid dissolved in 25 grams of benzene shows a depression in freezing point 1.6 K. Molal depression constant for benzene is 4.9 K kg/ mol. What is the percentage dissociation of acid if it forms dimer in solution?
9. 5% solution (by mass) of cane sugar in water has freezing point of 271 K. Calculate the freezing point of 5% glucose in water, if freezing point of pure water is 273.15 K.

### CHEMICAL KINETICS

- 1 Define : 1) Rate law (2) Half life period  
(3) Pseudofirst order reaction
2. Differentiate between Order and Molecularity.
3. Half life period of first order reaction is independent of initial concentration of the reactants.
- 4 Do any 5 numericals each on :
  - 1) first order reactions
  - 2) calculation of order of reaction
  - 3) Arrhenius Equation.

### POLYMERS

1. Elastomers, fibres, thermoplastic polymers and thermosetting polymers. With suitable example of each
2. Explain monomers, polymerizing unit and reactions of following addition polymers.
  - LDPE
  - HDPE
  - TEFLON
  - P A N
3. Explain monomers, polymerizing unit and chemical reactions of the following condensation polymers.
  - Nylon 6
  - Nylon 66
  - Terylene or davron
  - Novolac
  - Bakelite
  - Melamine
4. Explain monomers, polymerizing unit and chemical reactions of the following copolymers.
  - Natural rubber
  - Neoprene
  - Buna N
5. What is vulcanization of rubber? What is the effect of vulcanization of rubber?
6. What are biodegradable polymers? give any three examples with their monomers, polymers and polymerizing units.

### • CHEMISTRY IN EVERY DAY LIFE

1. Differentiate drugs and medicines.
2. Explain the term chemotherapy.
3. What is allosteric site?
4. What is competitive and non competitive inhibition?
5. What are agonistic and antagonistic drugs?
6. What are broad spectrum and narrow spectrum antibiotics?
7. What are narcotics and non narcotic analgesics? give example.
8. What are the components of dettol?
9. What is tincture of iodine?
10. How and why iodoform is used as antiseptic?
11. Name the compound which is used as disinfectant as well as antiseptic and when?
12. Why the use of aspartame is limited to the cold drinks/ foods only?
13. Differentiate biodegradable and non biodegradable detergents.
14. What are antifertility drugs? give two examples.
15. Why use of Aspirin is suggested at the time of heart attack?
16. What are antidepressants give example?
17. What are antihistamines? give two examples.

• PRACTICAL SKILLS

Try to observe and inculcate practical skills in following practicals by watching the videos on olabs.

1. Preparation of hydrophilic sol of starch.
2. Preparation of hydrophobic SOL of ferric hydroxide.
3. Preparation of double salt potash alum.
4. Preparation of double salt of ferrous ammonium sulphate.
5. Preparation of aspirin.
6. Study the effect of of temperature on rate of reaction.
7. Study the effect of concentration on rate of reaction.
8. Preparation of 250 ml of 1/20 oxalic acid solution.
9. Preparation of 50 ml of mohr salt solution.

## COMPUTER SCIENCE

**Q1.** Define the following terms in context with the MySQL:

<b>i.</b> Relation	<b>ii.</b> Attribute	<b>iii.</b> Tuple	<b>iv.</b> Degree	<b>v.</b> Cardinality
<b>vi.</b> Primary key	<b>vii.</b> Candidate key	<b>viii.</b> Alternate key	<b>ix.</b> Foreign key	<b>x.</b> Cross Join

**Q2.** Differentiate between (with examples):

- i.** DDL Commands and DML Commands
- ii.** Primary key and Candidate key
- iii.** Degree and Cardinality
- iv.** Primary key constraint and Unique constraint
- v.** Equi-join and Natural join
- vi.** Order by clause and Group by clause
- vii.** COUNT() and COUNT(\*) function

**Q3.** Consider the following tables **ACTIVITY** and **COACH**. Write SQL commands for the statements **(i) to (iv)** and give outputs for SQL queries **(v) to (viii)**

**Table: ACTIVITY**

<b>ACode</b>	<b>ActivityName</b>	<b>ParticipantsNum</b>	<b>PrizeMoney</b>	<b>ScheduleDate</b>
1001	Relay 100x4	16	10000	23-Jan-2004
1002	High jump	10	12000	12-Dec-2003
1003	Shot Put	12	8000	14-Feb-2004



1005	Long Jump	12	9000	01-Jan-2004
1008	Discuss Throw	10	15000	19-Mar-2004

**Table: COACH**

PCode	Name	ACode
1	Ahmad Hussain	1001
2	Ravinder	1008
3	Janila	1001
4	Naaz	1003

- (i) To display the name of all activities with their Acodes in descending order.
- (ii) To display sum of PrizeMoney for each of the Number of participants groupings (as shown in (iii) column ParticipantsNum 10,12,16)
- (iv) To display the coach's name and ACodes in ascending order of ACode from the table COACH.
- (v) To display the content of the GAMES table whose ScheduleDate earlier than 01/01/2004 in ascending order of ParticipantNum.
- (vi) SELECT COUNT(DISTINCT ParticipantsNum) FROM ACTIVITY;
- (vii) SELECT MAX(ScheduleDate),MIN(ScheduleDate) FROM ACTIVITY;
- (viii) SELECT SUM(PrizeMoney) FROM ACTIVITY;
- (ix) SELECT DISTINCT ParticipantNum FROM COACH;

**Q4.** Consider the following tables **Consignor** and **Consignee**. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (viii).

**Table: CONSIGNOR**

CnorID	CnorName	CnorAddress	City
ND01	R Singhal	24, ABC Enclave	New Delhi
ND02	Amit Kumar	123,Palm Avenue	New Delhi
MU15	R Kohli	5/A, South Street	Mumbai
MU50	S Kaur	27-K, Westend	Mumbai

**Table: CONSIGNEE**

CneeID	CnorID	CneeName	CneeAddress	CneeCity
MU05	ND01	Rahul Kishore	5, Park Avenue	Mumbai
ND08	ND02	P Dhingra	16/J, Moore Enclave	New Delhi
KO19	MU15	A P Roy	2A, Central Avenue	Kolkata
MU32	ND02	S Mittal	P 245, AB Colony	Mumbai
ND48	MU50	B P Jain	13, Block D, A Vihar	New Delhi

- (i) To display the names of all Consignors from Mumbai.
- (ii) To display the CneeID, CnorName, CnorAddress, CneeName, CneeAddress for every Consignee.
- (iii) To display consignee details in ascending order of CneeName.
- (iv) To display number of consignors from each city.
- (v) SELECT DISTICT City FROM Consignee;
- (vi) SELECT A.CnorName, B.CneeName  
FROM Consignor A, Consignee B  
WHERE A.CnorID = B.CnorID AND B.CneeCity = 'Mumbai';
- (vii) SELECT CneeName, CneeAddress  
FROM Consignee  
WHERE CneeCity NOT IN ('Mumbai', 'Kolkata');
- (viii) SELECT CneeID, CneeName  
FROM Consignee  
WHERE CnorID = 'MU15' OR CnorID = 'ND01';

**Q5.** Write SQL commands for the queries (i) to (iv) and output for (v) & (viii) based on a table COMPANY and CUSTOMER:

COMPANY			
CID	NAME	CITY	PRODUCTNAME
111	SONY	DELHI	TV
222	NOKIA	MUMBAI	MOBILE
333	ONIDA	DELHI	TV
444	SONY	MUMBAI	MOBILE
555	BLACKBERRY	MADRAS	MOBILE
666	DELL	DELHI	LAPTOP

CUSTOMER				
CUSTID	NAME	PRICE	QTY	CID
101	Rohan Sharma	70000	20	222
102	Deepak Kumar	50000	10	666
103	Mohan Kumar	30000	5	111
104	<u>Sahil</u> Bansal	35000	3	333
105	Neha	25000	7	444
106	<u>Sonal</u> Aggarwal	20000	5	333
107	Arjun Singh	50000	15	666

- (i) To display those company name which are having prize less than 30000.
- (ii) To display the name of the companies in reverse alphabetical order.
- (iii) To increase the prize by 1000 for those customer whose name starts with 'S'
- (iv) To add one more column totalprice with decimal(10,2) to the table customer
- (v) SELECT COUNT(\*),CITY FROM COMPANY GROUP BY CITY;
- (vi) SELECT MIN(PRICE), MAX(PRICE) FROM CUSTOMER WHERE QTY>10 ;
- (vii) SELECT AVG(QTY) FROM CUSTOMER WHERE NAME LIKE "%r%";
- (viii) SELECT PRODUCTNAME,CITY, PRICE FROM COMPANY,CUSTOMER WHERE COMPANY.CID=CUSTOMER.CID AND PRODUCTNAME="MOBILE";

## BIOLOGY

### Ch 1 Reproduction in organisms

1. What represents the life span of an organism? (1)
2. Which individuals can be termed as clones? (1)
3. How do the following organisms reproduce: Paramecium and Penicillium? (1)
4. State the function of a vegetative propagule. (1)
5. How will you grow a banana and a ginger plant? (1)
6. Enlist the significance of reproduction. (2)
7. Why do hilly areas of Kerala, Karnataka and Tamil Nadu transform into blue stretches that attracts many tourists? (2)
8. Define 'oestrus' and 'menstrual' cycles. (2)
9. What regulates the reproduction processes and the associated behavioural expressions in organisms? (2)
10. Mention the different stages of sexual reproduction. (2)
11. What are heterogametes? What do we call these gametes individually? (3)
12. Why is syngamy a major event in sexual reproduction? (3)
13. What happens during embryogenesis? (3)
14. Give any three differences between asexual and sexual reproduction. (3)
15. Enlist the changes that occur post- fertilization in plants. (3)

### Ch 2 (Sexual Reproduction in Flowering Plants)

1. What kind of structures is formed at the end of microsporogenesis and megasporogenesis? (1)
2. What is funiculus? (1)
3. Define parthenocarpy. (1)
4. What is microsporogenesis? (1)
5. Why is emasculation done in the process of hybridization? (1)
6. Describe the structure of a microsporangium with a neatly labeled diagram. (2)
7. Why pollen grains can remain well preserved as fossils? (2)
8. How are the cells arranged in an embryo sac? (2)
9. Why are cleistogamous flowers invariably autogamous? (2)

10. State any one advantage and disadvantage of pollen grains to humans. (2)
11. Differentiate between microsporogenesis and megasporogenesis. (3)
12. Explain the stages involved in the maturation of a microspore into a pollen grain. (3)
13. What is triple fusion? Where does it occur? (3)
14. Explain the structure of an anatropous ovule with a neat labeled diagram? (3)
15. Explain the formation of an embryo sac with diagrams. (5)
16. What do you understand by double fertilization? (1)
17. What is sporopollenin? (1)
18. Name one plant each where pollination occurs with the help of (1)
  - a) Water.
  - b) Bats
19. Why do most zygotes develop after certain amount of embryo is formed? (1)
20. What is polyembryony? (1)
21. State the characteristics of insect pollinated flowers. (2)
22. Differentiate between chasmogamous and cleistogamous flowers (2)
23. Which type of pollination ensures the arrival of genetically different pollen grains to stigma? (2)
24. What relationship exists between a species of moth and Yucca plant? (2)
25. Describe the structure of a pollen grain. (3)
26. Enlist the advantages offered by seeds to angiosperms. (3)
27. Give any three advantages of sexual incompatibility. (3)
28. Explain the development of embryo in a dicotyledonous plant with neatly labeled diagrams. (5)

### Ch 3 (Human Reproduction)

1. Why are male testes located outside the abdominal cavity? (1)
2. State the function of leydig cells. (1)
3. Where do we find fimbriae? (1)
4. What is semen? (1)
5. Define parturition. (1)
6. Describe the structure of a sperm with a diagram. (2)
7. Enlist any two functions of a female placenta. (2)
8. What is the number of chromosomes in the following cells? Primary oocyte, secondary oocyte, ootid and follicle. (2)
9. What are the various male accessory glands? Give their function. (3)
10. Explain the menstrual cycle with a diagram. (3)
11. Differentiate between spermatogenesis and oogenesis. (3)
12. 'A fertilized egg is the blue print of future development'. Explain (3)
13. Explain the development of human embryo with diagrams. (5)

### Ch 4 (Reproductive Health)

1. What is the WHO's interpretation of reproductive health? (1)
2. Why has the Government imposed a statutory ban on amniocentesis? (1)
3. Expand MTP and ICSI. (1)
4. What does GIFT represent? (2)
5. How does Cu- T act as a contraceptive? (2)
6. Mention any four probable reasons for the rapid rise of population in our country? (2)
7. Identify the device used for the following methods of birth control: Barrier, IUD, Surgical technique and Administering hormone. (2)
8. What are STDs? Mention any two of it. (2)
9. Enlist any three causes of infertility in men and women. (3)
10. State the consequences of over population. (3)
11. Differentiate between natality rate and mortality rate. (3)
12. Explain any one natural method of birth control. (3)

13. Give three differences between tubectomy and vasectomy. (3)

Name the phenomena that occur when homologous chromosomes do not separate during meiosis.

#### Ch 5 Principles of inheritance and variation

1. Give any two similarities between behavior of genes (Mendel's factor) during inheritance & chromosomes during cell division. [2].

2. How will you find out whether a given plant is homozygous or heterozygous?

3. In *Antirrhinum majus* a plant with red flowers was crossed with a plant with white flowers. Work out all the possible genotypes & phenotypes of F1 & F2 generations comment on the pattern of inheritance in this case?

4. A red eyed male fruitfly is crossed with white eyed female fruitfly. Work out the possible genotype & phenotype of F1 & F2 generation. Comment on the pattern of inheritance in this cross?

5. In dogs, barking trait is dominant over silent trait & erect ears are dominant over drooping ears. What is the expected phenotypic ratio of offspring when dogs heterozygous for both the traits are crossed?

6. What genetic principle could be derived from a monohybrid cross? [1]

7. Which one change is the cause of sickle – cell anaemia? [1]

8. What is a test cross? [1]

9. Why do sons of haemophilic father never suffer from this trait? [2]

10. How is the child affected if it has grown from the zygote formed by an XX-egg fertilized by Y-carrying sperm? What do you call this abnormality? [2]

11. The map distance in certain organism between genes A & B is 4 units, between B & C is units, & between C & D is 8 units which one of these gene paves will show more recombination frequency? Give reason.

(i) Work out all the possible phenotypes & genotypes of the progeny.

(ii) Discuss the kind of domination in parents & progeny in this case?

12. In a cross made between a hybrid tall & red plant (TtRr) with dwarf & white flower (ttrr). What will be the genotype of plants in F1 generation?

13. Differentiate between dominance, co-dominance & Incomplete dominance with one example each.

#### Ch 6 Molecular basis of inheritance

1. Name the process in which unwanted mRNA regions are removed & wanted regions are joined.

2. Give the initiation codon for protein synthesis. Name the amino acid it codes for?

3. In which direction, the new strand of DNA synthesised during DNA replication. [1]

4. "DNA polymerase plays a dual function during DNA replication" comment on statement? [2]

5. Three codons on mRNA are not recognised by tRNA what are they? What is the general term used for them what is their significance in protein synthesis?

6. What is transformation? Describe Griffith's experiment to show transformation? What did he prove from his experiment?

7. The base sequence on one strand of DNA is ATGTCTATA

8. What is an operon? Describe the major steps involved in an operon? [5]

i) Give the base sequence of its complementary strand.

ii) If an RNA strand is transcribed from this strand what would be the base sequence of RNA?

iii) What holds these base pairs together?

9. What is the function of amino acyltRNA synthetase. [1]

10. What is point mutation? [1]

11. Name the enzyme that joins the short pieces in the lagging strand during synthesis of DNA?

12. Why is it essential that tRNA binds to both amino acids & mRNA codon during protein synthesis?
13. What is peptide bond? How is it formed? [2]
14. Explain what happens in frameshift mutation? Name one disease caused by the disorder?
15. Two claimant fathers filed a case against a lady claiming to be the father of her only daughter. How could this case be settled identifying the real biological father?
16. The length of DNA in an eukaryotic cell is N 2.2 m How can such a huge DNA be packaged in a nucleus of micrometer in diameter.
17. What do you mean semi conservative nature of DNA replication. Who proved it & how?
18. Name the enzyme which helps in formation of peptide bond? [1]
19. Who experimentally prove that DNA replication is semi conservative. [1]
20. What is a codon? [1]
21. What do you mean by "Central Dogma of Molecular genetics?" [2]
22. Give two reasons why both the strands are not copied during transcription? [2]
23. Why is human Genome project considered as mega project?
24. A tRNA is charged with amino acid methionine.
- i) At what site in the ribosome will the tRNA bind?
- ii) Give the anticodon of this tRNA?
- iii) What is the mRNA codon for methionine?
- iv) Name the enzyme responsible for this binding?
25. Describe the continuous & discontinuous Synthesis of DNA? [3]
26. Where do transcription & translation takes place in a prokaryotic cell? Describe the three steps involved in translation?

## Holiday Homework for Class XII-B 2020-21

(FOR HINDI, ENGLISH & MATHS, SEE HW OF XII-A)

### ACCOUNTANCY

- 1.** Students are supposed to make a Project File containing 3 projects:-(**NO FIELD VISIT IS REQUIRED**) :-  
**BASED ON CLASS XI STUDY(OLD COPY SHEET SHOULD BE USED FOR WORK).**

**NOTE:-NOT TO PURCHASE ANY BOOK ,COPYor SHEETS FOR HOLIDAY HOMEWORK.**

- A. **Comprehensive Project** :-As per the CBSE guidelines every student of class 12th have to prepare a Comprehensive accountancy project. In the project student are required to make a sole proprietorship and make its accounts for a year ending. Some points that you should keep in your mind are:-
- **STORY:** There should be nicely written story in the project. The story should include all the major decisions of the firm. It should give an overview of the business. Students are advised not to add all the entries to the story. There should be 5 adjustment entries in project which should be shown in story.
  - **CAPITAL:** Since students are required to prepare accounts of sole proprietorship, capital of the firm should not exceed 50 lakhs.
  - **JOURNAL:** There should be around 35-45 journal entries. There should be some entries related to Pre-Operative Expenses.

- **LEDGER:** There should be around 25-30 ledger accounts. Ledger Accounts should be closed with trading A/c and profit and loss A/c.
- **TRIAL BALANCE**
- **TRADING, PROFIT & LOSS A/C**
- **BALANCE SHEET**

B. SPECIFIC PROJECT I :- BASED ON RATIO ANALYSIS (will do later)

C. SPECIFIC PROJECT II: - BASED ON CASH FLOW STATEMENT( will do later)

2. Revise and learn all the syllabus covered in the e-class. **(REVISE THE NOTES SPECIALLY)**

## Business Studies

1. Revise and learn all the syllabus covered in the e-class. **.(REVISE THE NOTES SPECIALLY)**
2. Solve the following case studies of chapter 1,2 & 3 **(OLD COPY SHEET SHOULD BE USED FOR WORK).**

**NOTE:-NOT TO PURCHASE ANY BOOK ,COPYor SHEETS FOR HOLIDAY HOMEWORK.**

### **Chapter 1,2&3**

- 1 Arvind is working as an Operation Manager at Usha Martin in Ranchi. Which level is he serving. List out any two functions of these level.
- 2 Air India intends to extend its international flight to Pakistan , Afganistan and China over next 3years. For this it intends to work out on the impact of terrorism, taxation policy, landing rights for foreign countries and consumer legislation for compensation of cancelled flights. Identify the concerned element at macro level
- 3 Dr Tanmay a senior cardiothorasic surgeon is concerned about depleting health index in India. Being a CMO (Chief Medical Officer) of Government Hospital he is given the responsibility to probe into the situation by health ministry. One of the major reason found in his survey was aerated drinks and fast food consumption by youth under compulsion. Hospital authorities were instructed to guide some segments of hotel industry to prepare zero-oil food with all basic nutrients required by body. The concept was unique within itself and was appreciated by health conscious people. Only selected restaurant's outlet were called for a need based training. In this process first approach was to eliminate unnecessary items from menu card and add calorie value as well as precautions if any along with the price. Next standard time for processing the order was fixed to avoid waiting time. Movement of waiters , cook and other staff was closely monitored. Within 6 months the concept gained momentum in market.  
Identify by quoting lines the following -
  - A The concerned principle and technique of scientific management.
  - B The benefit of this environmental survey.
  - C Identify the level at which Dr. Tanmay is serving and which objective of hospital is satisfied by this act.
- 4 A medicine company sends medicines to retailer through roadways which costs him nominal During civil disturbance, despatch of consignment for the month of April 2017 was delayed Management decided to send the same through courier even though it would cost very high. Which aspect of management is taken care of here?

- 5 As a management student, Rahim is to study Anthropology, Sociology, Psychology, Physiology, Mathematics, Economic, English, Political science and other subjects indifferent permutation and combination Which characteristics of management is highlighted in these case?
- 6 Through e- Chaupal ITC intends to change the quality of life for Indian farmers. Which objective of management is being highlighted by the approach of ITC?
- 7 An organization is going in loss for last two year. A management consultant group had been hired by top level executives. The management consultant team had interviewed various departmental heads . They found that:-
- i. (a)The production manager said that he was not given proper market feedback. ii.(b)Marketing manager gave feedback of poor quality produced by the production department therefore sales declined.
  - iii.(c) Finance department gave feedback that money could not be released in time due to lack of fund and information.

As a member of manager consultant committee.

1. Identify the problem and comment on its nature
2. List the elements of it
3. Give solution.

manager of cokeoven plant you find that your workers look tired and comparatively take more time to finish work. You are confident that there is no intentional delay or lack of training. Before taking any action you want to cross check scientifically

- i. A Which technique would you suggest
- ii. B Explain the elements of this study.

- 9 Identify and explain the principles of management in concerned cases-
  - a. Once followed reduces the need of punishment
  - b. Both employer and employee have to move towards prosperity together
  
- 10 Amit is marketing manager, Bijoy is the finance manager and Chandan is production manager of TELPA Ltd which produces wheel barrow Due to a local event in the town there is sudden requirement of 15,000 units within 7 days To encash this opportunity, Amit directly contacted Chandan on the execution aspect rather taking lengthy routine channel of communication They both contacted Bijoy for availability of fund. Thus it led to huge profit.
  - i. Explain under which provision Amit contacted Chandan.
  - ii. Explain the nature of behavioral element existing among the 3 managers.
  - iii How this behavioral element is related to a technique of working
  
- 11 Explain Functional Foremanship and Differential Piece Wage System as the technique of scientific management.
  
- 12 Your brother is working as Operational manager in X company Which level is he serving? List out any 4 functions that he might be performing.
  
- 13 Ramu, an auto-mechanic, was working in a city. But due to ill health of his parents he was compelled to shift to his village. Before final packing he visited village thrice with the intention of surveying He found that the village was approximately seven kilometres away from the nearest highway. He noticed that vehicles which broke down had no repair facility in that area. Further survey revealed that if he opens a Auto-Service-Centre he can earn for his livelihood. He motivated some young boys of his village to join him for providing this service. He trained them and employed them in his workshop.
  - a. Which benefit has he availed from environmental analysis
  - b. State three other benefits of environmental scanning.
  - c. Identify any two values which was communicated to the society by Ramu's behaviour
  
- 14 Medical transcription has led to creation of job opportunity for secretarial practices in Indian market. This is due to inherent difference in time of India and America as well as work permit clearance in between the two countries Mrs Jha along with her friend has opened a institution for vocational training which is to be given to 12<sup>th</sup> pass candidates for this purpose Further she takes guarantee for 100% placement .She often gets suggestion from her employees for image building and performance enhancement. There is perfect understanding in between her editorial staff, faculties and placement officer. By quoting the lines from above para answer following :-
  - A Name the concerned environmental factors?
  - B Which principles of management are followed here?
  - c What values are communicated through this act?



- 15 A supervisor of L Company is well-versed in his job and is equally a good HBS (human behavior specialist) but often fails in giving output for production: Identify the area with specification where he is not capable of?
- 17 An Army School reserves 5% seats for war widows as its basic recruitment policy. Which objective of management is it satisfying?
- 18 What is SIX SIGMA approach of management and how is it helpful in management?
- 19 The CEO of a company gives statement in its annual function showing his intention to ensure that the people who are moving out of the gate every evening need to come back next morning to office willingly and with full zeal. Which function of management is highlighted in this statement?
- 20 Amit, who is a marketing manager of a construction company ensures top level management to get a tender in their favour for flyover construction. This was a tough target for which he requested to get 10% of the contract value to be spent without any clarification. Since it was a major project which would add to the good will of company, top level management accepted this offer. The tender was in favour of the company. How is the act of Amit to be interpreted?
- 21 As an academic head, Mr.X has to make the academic calendar of the institution for new session and for this he reviews the previous one for various amendments. Which quality of management is highlighted here?
- 22- Alpha group intends to enter into a new venture which was spotted through SWOT analysis by top level but could not be properly worked out by middle level, therefore, low level was failing in its assessment session.
- (a) Underline the phrase which shows the error in diversification plan.
  - (b) Identify the level at fault.
  - (c) Which function of that level could not be performed properly.
- 23 Coordination is required by managers at every level for the success of management. What is the nature of coordination? Can it be successful without cooperation? Give reasons.
- 24 Government of India intends to retain monopoly in fighter plane manufacturing unit. Therefore it intends to set up a separate department for the same. What would be the type of structure of the upcoming organization?
- 25 Rani after her marriage had to shift to a small place, Netarhat in Jharkhand. She realized that this place is gifted by nature's beauty and can be developed as a tourist spot where people could come and stay in a holiday resort for 2-3 days to see sun rise & sunset with mountains and valley's adding beauty & thrill. Further local people have to be trained & developed on hospitality aspects like tourist guide, receptionist etc.

With the cooperation of local people, she worked on this project. The overall estimate to meet the expenses came to Rs. 5 crore. For this she contacted specialized financial institutions. Thus she not only started but managed the organisation within short span of time

A Which principle of Fayol helped her to be successful in this venture ? B

Which factor of environmental factor helped her?

## INFORMATICS PRACTICES

**Q1.** Define the following terms in context with the MySQL:

i. Relation	ii. Attribute	iii. Tuple	iv. Degree	v. Cardinality
vi. Primary key	vii. Candidate key	viii. Alternate key	ix. Foreign key	x. Cross Join

**Q2.** Differentiate between (with examples):

- i. DDL Commands and DML Commands
- ii. Primary key and Candidate key
- iii. Degree and Cardinality
- iv. Primary key constraint and Unique constraint
- v. Equi-join and Natural join
- vi. Order by clause and Group by clause
- vii. COUNT() and COUNT(\*) function

**Q3.** Consider the following tables **ACTIVITY** and **COACH**. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (viii)

**Table: ACTIVITY**

ACode	ActivityName	ParticipantsNum	PrizeMoney	ScheduleDate
1001	Relay 100x4	16	10000	23-Jan-2004
1002	High jump	10	12000	12-Dec-2003
1003	Shot Put	12	8000	14-Feb-2004
1005	Long Jump	12	9000	01-Jan-2004
1008	Discuss Throw	10	15000	19-Mar-2004

**Table: COACH**

PCode	Name	ACode
1	Ahmad Hussain	1001
2	Ravinder	1008
3	Janila	1001
4	Naaz	1003

(x) To display the name of all activities with their Acodes in descending order.

(i) To display sum of PrizeMoney for each of the Number of participants groupings (as shown in column ParticipantsNum 10,12,16)

(ii) To display the coach's name and ACodes in ascending order of ACode from the table COACH.

(iii) To display the content of the GAMES table whose ScheduleDate earlier than 01/01/2004 in ascending order of ParticipantNum.

(iv) SELECT COUNT(DISTINCT ParticipantsNum) FROM ACTIVITY;

(v) SELECT MAX(ScheduleDate),MIN(ScheduleDate) FROM ACTIVITY;

(vi) SELECT SUM(PrizeMoney) FROM ACTIVITY;

(vii) SELECT DISTINCT ParticipantNum FROM COACH;

**Q4.** Consider the following tables **Consignor** and **Consignee**. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (viii).

**Table: CONSIGNOR**

CnorID	CnorName	CnorAddress	City
ND01	R Singhal	24, ABC Enclave	New Delhi
ND02	Amit Kumar	123,Palm Avenue	New Delhi
MU15	R Kohli	5/A, South Street	Mumbai
MU50	S Kaur	27-K, Westend	Mumbai

**Table: CONSIGNEE**

CneeID	CnorID	CneeName	CneeAddress	CneeCity
MU05	ND01	Rahul Kishore	5, Park Avenue	Mumbai
ND08	ND02	P Dhingra	16/J, Moore Enclave	New Delhi
KO19	MU15	A P Roy	2A, Central Avenue	Kolkata
MU32	ND02	S Mittal	P 245, AB Colony	Mumbai
ND48	MU50	B P Jain	13, Block D, A Vihar	New Delhi

- (i) To display the names of all Consignors from Mumbai.
- (ii) To display the CneeID, CnorName, CnorAddress, CneeName, CneeAddress for every Consignee.
- (iii) To display consignee details in ascending order of CneeName.
- (iv) To display number of consignors from each city.
- (v) SELECT DISTICT City FROM Consignee;
- (vi) SELECT A.CnorName, B.CneeName  
FROM Consignor A, Consignee B  
WHERE A.CnorID = B.CnorID AND B.CneeCity = 'Mumbai';
- (vii) SELECT CneeName, CneeAddress  
FROM Consignee  
WHERE CneeCity NOT IN ('Mumbai', 'Kolkata');
- (viii) SELECT CneeID, CneeName  
FROM Consignee  
WHERE CnorID = 'MU15' OR CnorID = 'ND01';

**Q5.** Write SQL commands for the queries (i) to (iv) and output for (v) & (viii) based on a table **COMPANY** and **CUSTOMER**:

### COMPANY

CID	NAME	CITY	PRODUCTNAME
111	SONY	DELHI	TV
222	NOKIA	MUMBAI	MOBILE
333	ONIDA	DELHI	TV
444	SONY	MUMBAI	MOBILE
555	BLACKBERRY	MADRAS	MOBILE
666	DELL	DELHI	LAPTOP

### CUSTOMER

CUSTID	NAME	PRICE	QTY	CID
101	Rohan Sharma	70000	20	222
102	Deepak Kumar	50000	10	666
103	Mohan Kumar	30000	5	111
104	Sahil Bansal	35000	3	333
105	Neha	25000	7	444
106	Sonal Aggarwal	20000	5	333
107	Arjun Singh	50000	15	666

- (i) To display those company name which are having prize less than 30000.
- (ii) To display the name of the companies in reverse alphabetical order.
- (iii) To increase the prize by 1000 for those customer whose name starts with 'S'
- (iv) To add one more column totalprice with decimal(10,2) to the table customer
- (v) SELECT COUNT(\*),CITY FROM COMPANY GROUP BY CITY;
- (vi) SELECT MIN(PRICE), MAX(PRICE) FROM CUSTOMER WHERE QTY>10 ;
- (vii) SELECT AVG(QTY) FROM CUSTOMER WHERE NAME LIKE "%or%";
- (viii)SELECT PRODUCTNAME,CITY, PRICE FROM COMPANY,CUSTOMER  
WHERE COMPANY.CID=CUSTOMER.CID AND PRODUCTNAME="MOBILE";

## **CLASS XII-B, C: - Economics**

- Project work  
Plan your project work for final practical exam
- Assignment work  
All the students prepare 20 very short answer type questions on the chapters taught in soft copy.
- Learning work  
Learn all the chapters till completed for the forthcoming test after reopening of school.
- Practice work
  1. Practice the numerical and schedule making of the lessons taught.
  2. Select the questions of the lessons taught from the sample paper sent to you on economics watsup group and write them in note book under headings 1marks questions.3-4marks quetin and 6 Mark's questions.

## **Holiday Homework for Class XII-C 2020-21**

**(FOR HINDI & ENGLISH, SEE HW OF XII-A)**

## **GEOGRAPHY**

1. Locate the major airport and ports of India on the political map of India
2. Mark the major railway network of the world on the political map of world.
3. Explain about the Nature and scope of human geography.
4. What are the essential features are required for human development index?
5. Explain about the factors which are affecting population distribution in the world.
6. Describe about the primary sector of the world.

## **HISTORY**

**Project work:-**

**Dear students prepare a project file of 20 to 25 pages on one of the given topics (list of the topics already send to you through WhatsApp group. The Project work Must be HAND WRITTEN.**

**Assignment work :-**

1. **Complete your written assignment from chapter 1 to 6 if you have not completed yet in your history notebook.**
2. Prepare a questionnaire of 20 questions (1marks questions only) from each completed chapter (6 chapter only) in soft copy .
3. Practice and write the answers of source base questions And other questions of 3marks ,8 marks from the 6 completed chapters which were asked in last 5 year CBSE exams ( question paper). Work must be in History Note book.

**Learning Work:- Dear students learn all the chapters completed till date for upcoming exams.**

**Map work:-**

**Fill up at least one map of the map items given in Book 1 on page number 2, 30 ,33 ,43 and 95.**

