



**Rama International School**

**Session 2019-20**

**Class-IX**

**Holiday Homework**

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**Dear Parents**

Holidays are a time to be with the family and friends. It brings a hope, dazzling a smile on the face on child. It is also a time to indulge in on favorite sport or pursue on hobbies. We make numerous plans for on holidays but most of them are not fulfilled. One of the main reasons for this is procrastination.

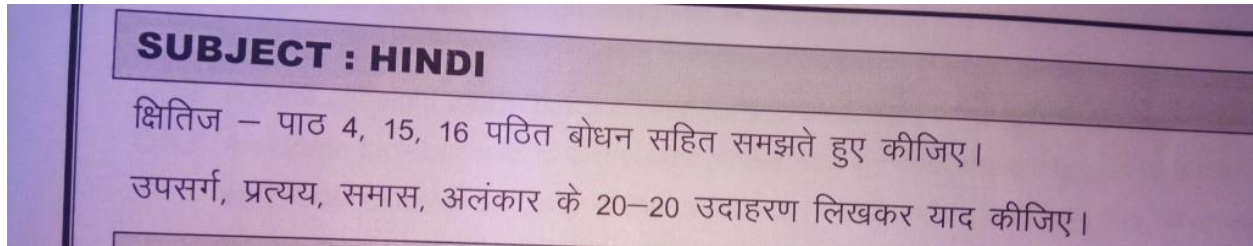
So why not make the most of it. Let's make a conscious effort to make these holidays more valuable and special of children by following some steps.

1. Spend some time with children discuss about their routine. While having meal keep away all the technology and get personal with your children.
2. Such moments of togetherness fortify family values and enhance bonding between parent and children.
3. Help your child in reading English books or novels.
4. Assist your child in completing his/her homework.
5. Do all the driven work sheets neatly and keep them in a well labeled folder. Write your name and class in each worksheet. If worksheets are not given than make separate note book for each subjects.
6. Involve your child in House. Chows like watering plants, arranging bed. Helping you in preparing Meal, arranging table etc.
7. Revise for all subjects as per the syllabus of P.T. III & Annual exam.

Submit your Holiday Homework to your Subject teacher by 08 Jan 2020.

**Happy Holidays!!!**

## HINDI



## ENGLISH

Grammar – Module Six

Computer Practice exercise on page No. 217, 220, 236, 239 and 240

Reading - Complete Module One

Writing - Module Three – Assignment 15, 15 ( C.A. + P.A. Both)

Literature - Learn P.T. III ( Full Syllabus)

## MATHS

Q.1 Write four solutions of the equation  $x + y = 9$

Q.2 If

$x = 2k - 1$  and  $y = k$  is a solution of the equation  $3x - 5y - 7 = 0$ , find the value of  $k$

Q.3 Draw the graph of :

(i)  $x + y = 4$  (ii)  $3x + 5y = 15$

Q.4 A number is 27 more than the number obtained by reversing its digits. If its unit and ten's digit are  $x$  and  $y$  respectively, write the linear equation representing the above statement.

Q.5 Draw the graphs of the linear equations  $4x - 3y + 4 = 0$  and  $4x + 3y - 20 = 0$ . Find the area bounded by these lines and X- axis.

Q.6 The radius of circle is 13 cm and the length of one of its chords is 10 cm.. Find the distance of the chord from the centre.

- Q.7 If a diameter of a circle bisects each of two chords of a circle, prove that the chords are parallel.
- Q.8 Prove that equal chords of congruent circle are equidistant from the corresponding centers.
- Q.9 Prove that the line joining the mid points of two equal chords of a circle subtends equal angles with the chord.
- Q.10 AC and BD are chords of a circle that bisect other. Prove that:
- AC and BD are diameters
  - ABCD is a rectangle.
- Q.11 From a right circle cylinder with height 10 cm and radius of base 6 cm, a right circular cone of some height and base is removed. Find the volume of the remaining solid.
- Q.12 A cone of height 24 cm has a curved surface area  $550 \text{ cm}^2$ . Find the volume.
- Q.13 A storage tank consists of a circular cylinder, with a hemisphere adjoined on either end. If the external diameter of the cylinder be 1.4 m and its length be 5 m, what will be the outside at the rate of Rs. 10 per square meter?
- Q.14 If the radius of the base of a right circular cylinder is halved, keeping the height same, What is the ratio of the volume of the reduce cylinder to that of the original.
- Q.15 How many planks each of which is 2 m long, 2.5 cm broad and 4 cm thick can be cut off from a wooden block 6 m long, 15 cm broad and 40 cm thick?

## **PHYSICS:**

- How does sound propagate in a medium?
- What do you mean by compression and rarefaction?
- What are the three types of sound waves? Explain each of them.
- Write down the applications of ultrasonic waves.
- Define SONAR and how does it work.
- Draw a labeled diagram of human ear and explain its construction and working.
- Define:
  - Amplitude
  - Velocity

- (c) Frequency
- (d) Time period

## CHEMISTRY:

1. Why are some elements are chemically inert?
2. What are valence electronic.
3. Find the number of neutrons in  ${}_{13}\text{X}^{27}$
4. Name two elements with same no of electrons protons and neutrons.
5. Name the isotope that used in treatment of Cancer.
  
6. Find the valiancy of the following element:  
(a) Cl                      (b) Si                      (c) P                      (d) Al
7. Give the difference b/w three subatomic particles.
8. What are the limitations of Ruther ford's modal of an atom?
9.  $\text{Na}^+$  has completely filled K and L shells. Explain:
10. If Bromine atom is available in the form of say two isotopes  ${}_{35}\text{Br}^{81}$  (50.3%) calculate the average atomic mass of Bromine atom?
11. The average atomic mass of a sample of an element X is 16.24. What are the percentage of is otopes  ${}_8\text{X}^{16}$  and  ${}_8\text{X}^{18}$  in the sample?

## BIOLOGY:

1. Who proposed the book "The origin of species".
2. Who proposed five kingdom classification.
3. Give two examples of the organism belonging to Phylum Monera & Protista?
4. What are Cryptogams us?
5. Differentiate between gymnosperm I Angiosperms?
6. What are Cotyledons?
7. Name the phylum of animals with pores on it?
8. What is the meaning of triploblastic?
9. What is the meaning of cold – blooded animals?

10. Name two moments that live in water.
11. Name the scientific name of :
  - (a) Rahu(b)                      (b) Electric ray                      (c) Earthworm
  - (d) Cockroach                      (e) Dog fish

## S.S.T.

1. Prepare all syllabus of PT 3 for test.
2. What are the Peculiar features of Nazi thinking?
3. Define an ecosystem?
4. Define flora and Fauna.
5. Do ch. 3 history and Ch. 5 Geography in map book.

## COMPUTER:

### SOFTWARE : MS-Word, Ms Excel and MS- PowerPoint.

1. Create a word processor file that prints a bill of items as bought in a gift shop named "TOKEN \_OF\_LOVE."  
The Bill should have
  - Welcome image should be on the Top.
  - A watermark
  - Front should be decorative
  - Customer name
  - Mode of Payment
  - Date of Purchase
  - Items purchased with Price and Discount.

Name of Item	Price of Item	Discount	Final Price
Diamond Pendant	27000	10%	26730
Gold Earrings	18000	7 %	16740
Case	500	-	500
Total			43970

#### MS-EXCEL

Tariq Fashions maintains their employee salary details in a spreadsheet as shown below. Fill the blanks using the Excel formulae.

1	NAME	BASIC	HRA	DA	PF	NET SALARY
2	Surinder	50000	20000	-	800	-
3	Kanika	56000	20000	-	500	-
4	Aashish	35000	15000	-	400	-
5	Herjit	45000	15000	-	500	-
6	Abhjrit	60000	20000	-	700	-
7	Jyoti	75000	30000	-	700	-
8	Amita	25000	10000	-	300	-
9	Maximum					
10	No. of Emp.					

- To calculate the DA as 25 % of BASIC + HRA for each employee and display in column D.
- To calculate the NET SALARY as BASIC + HRA – P + FD fAor each employee and display in Column E.
- To find the Maximum Net Salary and Display in cell F9.
- To count the number of employees and display in cell B10.
- The manager inserts a column for S.No. in the above spreadsheet. Which feature will help him to do the same?
- If the Basic Salary of an employee changes, will the manager have to redo all the Calculations for the particular employee? Explain.

### PowerPoint Presentation :

Create a PowerPoint Presentation on any one of the following topic:

- Christmas Day.
- Republic Day.
- Lohri and Makar Sakranti Festival.

**Note : (Learn all the work done in note book of chapter 1, 2, 15 and 16. Prepare yourself for PT – III exams)**