

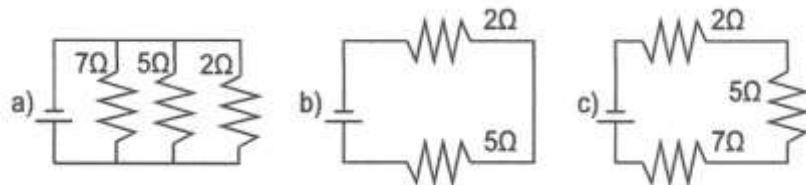
**D.T.E.A. SENIOR SECONDARY SCHOOL**  
**LAXMIBAI NAGAR, NEW DELHI**  
**CLASS X**

**ENGLISH**

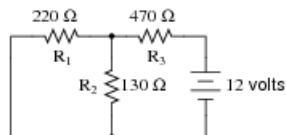
1. You are Amrish living at G-123 , Adarsh Colony, Mathura Road, New Delhi. A number of vehicles are parked for CNG filling on Ring Road causing traffic jams. Write a letter to the Police Commissioner complaining about the problem.
2. You are Arpit/Arpita Shubam living at Yamuna Vihar, Delhi. Your Colony is facing the monkey menace. Even the movement of residents has been affected, especially of ladies and children who fall easy victims to the monkeys. Write a letter to the Chairman of Municipal Corporation of Delhi to save your Colony from this menace.
3. Write an email to the Editor, The Times of India expressing your concern about the increasing crimes against women. You are Isha/Ishaan of A 602, Park View Apartments, Ghaziabad.
4. Shortage of water is being felt throughout the country. There is a great need for its conservation. Write an article on 'Conservation of Water'.
5. Develop a story using the inputs and give a proper title.  
Outline: A villager-----name Raghav -----a big city-----sawshops-----stood before a sweetmeat seller's shop-----purchased-----sweets -----shopkeeper weighed less than due-----Raghav paid a rupee less----the shopkeeper angrily-----why make short-----payment? Raghav remarked-----you will have to count less.
6. Prices are rising very high. Every time you go to market. You come to know that a thing you purchased last week cannot be purchased for the same price. You are disturbed about the rising price. Write a paragraph on 'price rise'.
7. You are Neeraj/Meena residing at No. 786, Pocket 10, Mayur Vihar, New Delhi. Write a letter to the Editor of Indian Express about the corruption in the Society and measures to check them.
8. Write a paragraph about the importance of morning walk.
9. Write a paragraph on junk food and its effects on our health.
10. Revise all the lessons and learn the questions and answers thereon.
11. Read 1-10 chapters from the novel "Helen Keller".

## Science

- An electric current of 2A passes through a coil of  $10\Omega$  resistance for 10 minutes, calculate the amount of heat produced ? **Ans :- 24,000 J**
- 36000 J heat energy is to be produced in a electric heater of resistance  $1000\Omega$  through which electric current is passed for five minutes, calculate the current passing through the heater. **Ans. 0.35 A**
- An electric bulb of 200 W is connected to 220V supply, calculate the energy consumed by it in one hour. **Ans.  $7.2 \times 10^5$  J.**
- An electric kettle of 500 W is used to heat water everyday for two hours, calculate the number of units of electrical energy consumed by it in 10 days. **Ans. :- 10 units**
- An household uses the following electric appliances –
- Refrigerator of rating 400W for ten hours each day (b) Two electric fans of rating 80W each for 12 hours each day (c) six electric tubes of rating 18W each for six hours each day, calculate the electricity bill of the household for the month of June if the cost per unit is Rs. 3.00. **Ans. :-**
- Determine the equivalent (total) resistance for each of the following circuits below.



### 8. Complete the table



a.

	$R_1$	$R_2$	$R_3$	Total
V				
I				
R	$220\Omega$	$130\Omega$	$470\Omega$	
P				

- Write any Fifteen chemical reactions and identify the types of reaction in each.
- Write any Fifteen chemical reactions and balance it. You can find these chemical equations from various sources like book/internet etc.
- Prepare a note about
- Alloys and their importance.
- Rancidity and corrosion.
- Write the definition of the following reactions and give any two examples of each.
- Combination reaction

16. Decomposition reaction
17. Displacement reaction
18. Double displacement reaction
19. Redox reaction
20. Endothermic and exothermic reaction
21. Learn all exercise questions and answers of chapter No 1.
  
22. Collect and paste atleast 10 objects which are made of plastic and also identify them as thermo plastic and thermo setting plastics.
23. Write an essay about "Plastic is a boon or curse" for us.
24. Write any 10 situation where we applying push or pull in our daily life.
25. Collect and paste the following:
26. Five kharif crops and rabi crops.
27. Any three devices which are used in agricultural practices.
28. Learn and write all exercise questions and answers of chapter No. 1, 11 and 3. (2 times)
  
29. Collect and paste pictures of the food items rich in different nutrients. (Five Pictures of each nutrients)
30. Write about 10 lines "Can junk food be made healthy?"
31. Write the names of ten plants and parts that we eat.
32. Collect and paste 10 different types of fabrics and name them whether that is made of natural fibres or synthetic fibres.
33. Learn and write all exercise questions and answers (2times). Chapter No.1,2 & 3

## MATHEMATICS

### Real Numbers

- (1) Find the HCF Using Euclid's Lemma
  - (i) 26, 91
  - (ii) 355, 727
  - (iii) 615, 972
  
- (2) Show that every positive even integer is of the form  $2q$  and that every positive odd integer is of the form  $2q + 1$  where  $q$  is an integer.
- (3) Find the greatest integer which on dividing 245 and 1029 leaves remainder 5 in each case.
- (4) Find the Greatest integer which on dividing 280 and 1245 leaves the remainder 4 and 5 respectively.

- (5) The length, breadth and height of a room are 8m 25cm, 6m 75cm and 4m 50cm respectively. Determine the longest rod which can measure the three dimensions of the room exactly.
- (6) Using power factors method find HCF and LCM of  
 (i) 15, 18 and 45      (ii) 92, 510
- (7) Check whether (i)  $4^n$  can end with 0 for any natural numbers  
 (ii)  $7^n$  can end with 0 for any natural numbers
- (8) 111 Cows, 185 sheep and 296 goats are to be taken across a river. There is only one boat and the boatman says he will take the same number and same kind of animals in each trip. Find the largest number of animals in each trip and the numbers of trips he will make.
- (9) Prove that the following are irrational  
 (i)  $\sqrt{2}$  (ii)  $\sqrt{2} + \sqrt{5}$  (iii)  $3\sqrt{2} - 7$  (iv)  $\sqrt{5}$
- (10) Without actual division comment on the nature of decimal form of the following rational numbers :

- (i)  $\frac{2}{25}$  (ii)  $\frac{6}{200}$  (iii)  $\frac{51}{1500}$  (vi)  $\frac{230}{2^2 \times 5^2 \times 7}$  (v)  $\frac{231}{2^2 \times 5^2 \times 7}$

### Polynomials

- (I) Find the zero of the polynomial and verify the relationship between zeros and the coefficients.
- (i)  $6x^2 - 3 - 7x$  (ii)  $2x^2 - 3 + 5x$  (iii)  $2x^2 - 9 - 3x$
- (II) If  $\alpha$  and  $\beta$  are the roots of  $p(x) = 3x^2 - (k + 6)x + 2(2k - 1)$  find the value of  $k$  if  $\alpha + \beta = \frac{1}{2} \alpha\beta$
- (III) If one zero of  $p(x) = 3x^2 - 8x + 2k + 1$  is seven times the other find the other zeroes and the value of  $k$ .
- (IV) Find the quadratic polynomial whose zeros are  
 (i)  $2 + \sqrt{3}, 2 - \sqrt{3}$  (ii)  $-9, \frac{1}{9}$  (ii)  $\frac{2}{3}, \frac{-1}{3}$
- (V) What must be subtracted from  $6x^3 + 11x^2 - 39x - 65$  so that the resulting polynomial divisible by  $x^2 + x - 1$ .
- (VI) Obtain all the zeros of  $x^4 - 7x^3 + 17x^2 - 17x + 6$  if two of its zeros are 3 and 1 respectively.
- (VII) If  $p(x) = 6x^4 + 8x^3 - 5x^2 + ax + b$  is exactly divisible by  $g(x) = 2x^2 - 5$  find the value of  $a$  and  $b$ .

- (VIII) What must be subtracted from  $8x^4 + 14x^3 - 2x^2 + 7x - 8$  so the resulting polynomial is exactly divisible by  $4x^2 + 3x - 2$ ?
- (IX) Give 2 examples of  $p(x)$ ,  $g(x)$ ,  $q(x)$  and  $r(x)$  which division algorithm and find  
 (i)  $\deg p(x) = \deg q(x)$  (ii)  $\deg q(x) = \deg r(x)$   
 (iii)  $\deg r(x) = 0$
- (X) Divide  $p(x)$  by  $g(x)$   
 (i)  $p(x) = x^4 + 3x^3 + 7x^2 + x + 13$ ,  $g(x) = x^2 + 2x + 2$   
 (ii)  $p(x) = x^3 - x^2 + 4x - 8$ ,  $g(x) = x + 3$

## STATISTICS

**Q1. Find mean height of students of class VII of 50 boys in a school.**

Height in cm.	100 – 110	110 – 120	120 – 130	130 – 140	140 – 150
No. of boys	3	7	12	20	8

**Q 2. Find Median of the Following Data.**

Marks Obtained	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No. of Girls	8	10	12	22	30

**Q 3. Find Mode from the Following Data**

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
Frequency	3	4	7	15	10	7	4

**Q 4. Find Mean, Median and Mode of the Following Data.**

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
Frequency	3	4	7	15	10	7	4

**Q 5. If Median of the Following Data is 52.5 Find x any y if total Frequency is 100.**

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80	80 – 90	90 – 100
Frequency	2	5	X	12	17	20	Y	9	7	4

**Q 6. Find X, Y and Z from the Following Distribution is its mean is 41.4 and Median is 41.875.**

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
Frequency	X	15	20	Y	16	Z	14	8

**Also Find Mode Using Empirical Formula.**

**Q 7. Find Mean, Median and Mode of the Following Frequency Distribution :**

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
Frequency	8	7	15	20	12	8	10

**Q 8. Find the Median Graphically by Drawing “Less Than” Ogive curve.**

(I)	Marks	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80	80 – 90	90 – 100	
	No. of Students	3	10	17	20	25	15	10	
(II)	Marks	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35	35 – 40
	No. of Students	4	6	10	10	25	22	18	5

**Q 9. Draw “Less Than” and “ More Than” Curve & Find Median.**

(I)	Score	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
	Frequency	8	10	147	12	4	2
(II)	Score	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
	Frequency	7	10	23	51	6	3

Profit	More Than or Equal to 5	<10	<15	<20	<25	<30	<35
Number of Slops	30	28	16	14	10	7	3

**SST (HISTORY, ECONOMICS, POL. SCIENCE , GEOGRAPHY)**

Write assignments on :

**History**

- 1.Role of women in Industries both in London and Bombay.
2. Work available to women has changed in London between 19<sup>th</sup> and 20<sup>th</sup> century .Explain the factors responsible for this change.
- 3.How does the large urban population affect
  - a) A private landlord
  - b) A police superintendent incharge of law and order.
  - c) A leader of a political party.
4. Why rich Londoners supported the need to build housing for the poor in the 19<sup>th</sup> century.

**Economics**

5. Write the developmental goals of :
  - a)Landless rural labourers.
  - b) A girl from a rich urban family.
  - c) Urban unemployed youth.

6. Explain with example that what may be development for one may not be development for other.
7. What is the income fixed by world bank for a country to be a rich country and a poor country.
8. Explain : a) infant mortality rate.  
b) Urban unemployed youth
9. Name some developmental goals for your locality where you live.
10. Write down the indicators of development published by UNDP.

### Pol. Science

11. What is Power Sharing ? Why Power Sharing is desirable?
12. What are the different forms of power sharing in modern democracies? Give an example of each of these.
13. State one prudential reason and one moral reason for power sharing with an example from the Indian context .

### GEOGRAPHY

Write assignments on :

1. Define the term Resource
  2. Write the difference between Renewable and non renewable Resource.
  3. What are reserves.
  4. Why do we need resource planning in India.
  5. Write the difference between 'Bangar and Khadar'
- Map Work—Make a coloured map of soil distribution.

### ग्रीष्मावकाश हेतु गृहकार्य

#### कक्षा-दसवीं

1. अनुच्छेद: (i) विज्ञापन और हमारा जीवन (ii) मेरा भारत महान  
(iii) परिश्रम का महत्त्व (iv) मीठी वाणी का महत्त्व (v) निंदक दुश्मन नहीं मित्र है।
2. औपचारिक पत्र (पाँच)
3. चरित्र-चित्रण- (i) बड़े भाई साहब (ii) हरिहर काका]
4. समय-सारिणी बनाइए। मुहावरों की दिनचर्या
5. किन्हीं चार स्वंत्रता सेनानियों का सचित्र जीवन परिचय तथा योगदान बताइए।

शब्द-पद तथा संज्ञा,सर्वनाम,क्रिया,विशेषण इत्यादि लिखिए।

CLASS - X

I flLi u vGJ f

1/ j kH; bkhHpa[k; mj d; rpwggk;

2/ rpf fdKk; rWnrkpggk;

II foj k; ti uf

1/ gssp , yffpa kdwj ; bj hl ff tHhtpwF tutpUffpdw  
, yffpar; brhwbghHpthsi u tuntwW xU kly; ti uf/

2/ Foer, trj p ntz o efuhl r p Mi z ahsUFF xU  
t p z ggk; ti uf/

III mwpfj f jahhpf f

1/ eP trpfFk; gFj pary; ei l bgww \*rhi y t j p f s;  
tHpggZ ht[ Kfhk; Fwvj j mwpfj f jahhpf f/

2/ gj j hk; tFggg; bghJ j ; nj ht py; Kj y; kj pbgz ; bgww  
cd; ez gi dg; ghuhl o thHj j r; braj p j ahhpf f/