

# CLASS 8

## HOLIDAY HOMEWORK

### SCIENCE

1. Learn the syllabus covered ~~for~~ PT (i)
2. Do all the questions in the c.w. notebook given in the assignment attached.
3. Complete the practicals of the 1 term in the practical file.
4. Prepare a model on given topic and Make a write up of the model with a miniature of the model.

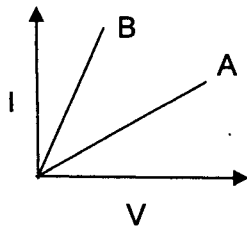
S. NO.	(X A) NAME OF MODEL/ EXHIBITION
1	Bio-Gas Plant
2	Electroplating
3	Electromagnetic Induction 1
4	Structure of stomata
5	Thermal power Plant
6	Solar Heater

S. NO.	(X B) NAME OF MODEL/EXHIBITION
1	Reflex Action
2	Flow of blood through human heart
3	Electromagnetic Induction 2
4	Structure of lungs
5	Traffic management
6	Electric Generator

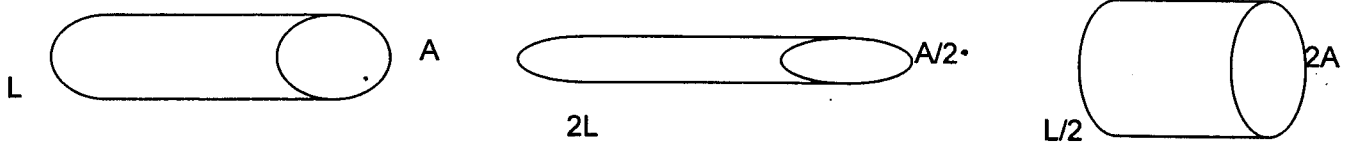
S. NO.	(X C) NAME OF MODEL/EXHIBITION
1	Household domestic circuit
2	Structure of brain
3	Electric Motor
4	Structure of nephron
5	Series and parallel combination
6	Force on current carrying conductor

## Assignment

1. Calculate the potential difference between two terminals of battery if 110J is work is required to transfer 20C of charge from one terminal battery to another .
2. i) Define the term 'coloumb' .  
ii) State the relationship between electric current , the charge moving through conductor and the time of flow.
3. Calculate the charge flowing through an electric bulb in 20 minutes if the value of current is 200mA.  
i) How is direction of electric current related to the direction of flow of electrons ?  
ii) Calculate the current in a circuit if 500C of charge passes through it in 10 minutes.
4. A piece of wire resistance 20 ohm is drawn out so that its length is increased to twice its original length. Calculate the resistance in new situation.
5. V-I graph for two wires 'A' and 'B' are shown in the figure . if both the wires are of same length and same thickness , which of the two is made of material of high resistivity? Give justification for your answer.



6. Resistance of a material of metal wire of length 1m is 26 ohm at 20°C. if the diameter of the wire is 0.3 mm , what will be the resistivity of the metal at the temperature ?
7. i) Draw a closed circuit diagram consisting of 0.5 m long nichrome wire XY, an ammeter, a voltmeter , four cells of 1.5 V each and a plug key .  
ii) What would be the values of V/I ratios when the potential difference is 0.8 V , 1.2 V and 1.2 V respectively ? What conclusion do you draw from these values ?
8. Define 1 volt . Express it in terms of SI unit of work and charge . Calculate the amount of energy consumed in carrying a charge of 1 coloumb through a battery of 3V .
9. The figure below shows 3 cylindrical copper conductors along their face areas and lengths. Discuss in which geometrical shape the resistance will be the highest.



10. Calculate the resistance of 1km long wire of copper of radius 1mm . Resistivity of copper is  $1.72 \times 10^{-8}$  ohm meter.
11. The resistance of a wire of 0.01 cm radius is 10 ohm . If resistivity of the material of wire is  $50 \times 10^{-8}$  ohm meter , find the length of the wire.
12. The resistance of the wire of length 250m is 1 ohm. If the resistivity of the material of wire is  $1.6 \times 10^{-8}$  ohm meter , find the area of cross-section of the wire . how much does the resistance change if the diameter is doubled/
13. The electrical resistivity of 3 materials A,B and C are given below :  
'A' =  $2.3 \times 10^3$  ohm metre 'B' =  $2.63 \times 10^{-8}$  ohm metre 'C' =  $1.0 \times 10^{15}$  ohm metre

- Which material will you use for making (i) electrical wires , (ii) handles for soldering iron and (iii) solar cells? Give reason to support your answer.
14. Suppose the ammeter or voltmeter you are using in ohm's law experiment do not have +ve and -ve terminal markings, how will you use such ammeter or voltmeter in the circuit?
  15. (i) Write an expression for the resistivity of a substance.  
(ii) State the SI unit of resistivity.  
(iii) Distinguish between resistance and resistivity.  
(iv) Name two factors on which the resistivity of a substance depends and two factors on which it does not depend.
  16. List two distinguishing features between the resistance and resistivity of conductor. A wire is stretched so that its length becomes 6 times of its original length. If its original resistance is  $25 \Omega$ , find its new resistance and resistivity. Give justification for your answer in each case.
  17. State Ohm's law. Draw a labelled circuit diagram to verify this law in the laboratory. If you draw a graph between the potential difference and current flowing through a metallic conductor, what kind of curve will you get? Explain how would you use this graph to determine the resistance of conductor.
  18. What happens to the value of current if position of battery and ammeter are interchanged in such a manner that the current enters at the positive terminal of the ammeter?
  19. How do you connect an ammeter and a voltmeter in electric circuit?
  20. What is done when the pointers of ammeter and voltmeter do not coincide with the zero mark on their scales even when the circuit is open?
  21. In the Ohm's law experiment it is advised to take out the plug from the key when the observations are not being taken .Why?
  22. Why is it advised to clean the ends of connecting wires before connecting them in a electric circuit?
  23. Suppose in the experiment to study V-I relationship for a given resistor the deflection on ammeter (or a voltmeter) scale goes beyond the full scale. What will you infer from such an observation?
  24. What will you infer if the deflection in an ammeter ( or a voltmeter ) takes place in opposite direction in an experiment?

*Am*

## MATHEMATICS HOLIDAYS HOMEWORK

- 1) DO SELF ASSESSMENT TEST - 1, 2, 7, 11 FROM YOUR ASSIGNMENT BOOK.
- 2) COMPLETE SUBJECT ENRICHMENT ACTIVITY i.e CHECKING CONSISTENCY OF SYSTEM OF LINEAR EQUATIONS BY GRAPHICAL METHOD.
- 3) PRACTICE ALL THE EXAMPLES AND REVISE THE SYLLABUS OF P.T.1
- 4) PREPARE A MODEL IN GROUP AS ALLOTTED IN THE CLASS

*(Model list on next page)*

1	Circular Geo Board	X-A
2	Play with Maths (Coordinate Geometry)	X-A
3	Heights and Distances (Word Problem)	X-A
4	Basic proportionality Theorem	X-A
5	Arithmetic Progression	X-A
6	Maths in real life	X-A
7	Mensuration (Surface Areas)	X-A
8	Circumference Verification	X-A
9	Tangent and secant Concept	X-A
10	Calculating Probability	X-A
11	Play with cards	X-B
12	Heights and Distances (Word Problem)	X-B
13	Clinometer	X-B
14	Tangents from an external point	X-B
15	Finding area of shaded region	X-B
16	Maths in real life 2	X-B
17	Calculation of median through ogives (3 ogives) and verification	X-B
18	Concept of frustum of a cone	X-B
19	Game on linear equation	X-B
20	Mensuration (Volumes)	X-B
21	Volume of combined objects	X-C
22	Basic proportionality theorem	X-C
23	Ogive curve to get median – statistics.	X-C
24	Effect of change in degree on height and distance	X-C
25	Find area of 2D figures through coordinate geometry	X-C
26	The length of two tangents drawn from an external point to a circle are equal.	X-C

**CLASS – X**  
**HOLIDAYS HOME WORK**  
**SUBJECT- SOCIAL SCIENCE**

**GEOGRAPHY:-**

- **WATER RESOURCES**-Do the following Questions-answer in Geography Register:  
Pg-194-Q.3.(ii);Pg-195-Q.3.(iii);Pg-198-Q- 1, 3; Pg-199-Q.7 , 11 , 12 ; Pg-200-Q-13; Pg-200-Q.1 , 2;  
Pg-201-Q.4 , 5, 6; Pg-202-Q.7

**HISTORY:-**

- **NATIONAL MOVEMENT IN INDO CHINA**- Do the following Questions-answer in History Register:  
Pg-31-Q.5 , 8; Pg-32-Q.11; Pg-34,35-Q.1 , 2 , 3 , 4 , 5 , 6 , 7 ; Pg-36-Q.8 , 9 , 10 , 11 , 12 , 13; Pg-37-  
Q.16 , 17,18 ; Pg-38-Q.1 9; Pg-38-Q.1 , 2 , 3; Pg-39-Q.4; Pg-40-Q.7 , 8

**POLITICAL SCIENCE:-**

- **POWER SHARING**- Do the following Questions-answer in Political Science Register:  
Pg-293-Q.6; Pg-296-Q.1 , 2; Pg-297-Q.4 , 5, 6; Pg-298-Q.9 , 10 , 11; Pg-299-Q.3 , 4; Pg-300-Q.1 , 4

**ECONOMICS:-**

- Learn L-1 and 3 for PT-1 Exams
- ❖ Revise social Science syllabus for Exams.

## ENGLISH HOLIDAY HOMEWORK

### CLASS 10

1. Read the novel 'The Story of my Life' till lesson-10 and answer the questions in detail [word limit: 120-150] in C.W. Register
  - i) Miss Sullivan understood Helen and taught her according to her abilities and needs. Comment.
  - ii) What role does nature play in Helen's learning?
2. Taking hints from M.C.B. Unit- Health and Medicine , write a letter to the Editor of TOI , highlighting the harmful effects of junk food on the health of people . You are Iliana/ Ali, of 520 Budhana, Gate Meerut , Write in your register 100 to 120 words.
3. Practice factual passages from assignment 1 to assignment 5 (pg. 25-30) of Vol.1  
Practice discursive passages from assignment-1 to assignment-5 (pg. 45-57) of Vol.1  
Practice Integrated Grammar assignment from 1 to assignment 5 (pg.177 to 185) of Vol.1
4. You are Mohit/Mohini , a resident of 432, Argun nagar Jaipur . Last week you came across an advertisement pertaining to vocational courses and wish to join the same during summer break . Write a letter of inquiry to the director of, Avons Academy 134, Maharaja Nagar Jaipur enquiring about the details of course , taking hints from M.C.B. unit : Education. Do it in your register and also paste some pictures
5. Learn the syllabus done in class.
6. Prepare a write up on A-4 size sheet of the activity conducted in class. Also paste related pictures. Submit in a folder.

### SUMMER HOLIDAY PROJECT WORK:

#### Art and Craft

- 1) Make a decorative box
- 2) Make a Bottle decoration

## COMPUTER HOLIDAYS HOMEWORK

### Class-X

1. Write the importance of social networking site in notebook.
2. Name any 5 ISPs operating in India. What kind of services ISP provides. (ch-1)
3. Write any 6 uses of Internet in today's world. (ch-2)
4. Explain terms related to database and attach the printout in practical file.
4. Revise L-1,2 and Read L-3

ग्रीष्ममासकार, हेतु बहु रिक्तियों का गृहकार्य

विषय - हिन्दी

कक्षा - दस

1. अभी तक पढ़ाए गए समस्त पाठों के 10-10 कठिन शब्द अर्थ सहित लिखें।
2. अपने शहर में बढ़ती अपराध वृत्ति की तरफ अधिकारी का ध्यान आकृष्ट कराने हेतु समाचार पत्र के संपादक को पत्र लिखिए।
3. 'विज्ञापन की बढ़ती लोकप्रियता' विषय पर एक अनुच्छेद लिखिए।
4. अभी तक पढ़ाए गए समस्त पाठ्यक्रम याद करिए।
5. 'हरिहर काका' नामक पाठ का शार अपने शब्दों में लिखिए।
6. 'आशुभाषण' नामक काव्यरत्नाकर लिखिए।