

# ANAND PUBLIC SCHOOL

**“Summer vacation is the best time for families to slow down, reconnect, and spend meaningful ‘US’ time together.”**

Dear Parents,

Summer Vacation offers a refreshing break for children - a chance to relax, explore, and rejuvenate. More than just a pause from school work, it's a precious time to nurture bonds, foster creativity and plant the seeds of values and memories that last a lifetime.

Children may not remember every toy they receive, but they will always carry the warmth of stories told, meals shared and moments spent with their loved ones. Let's use this opportunity to guide, support and connect with them in ways that matter most.

## **Below are few suggestions:-**

1. All homework must be written clearly and neatly.
2. Assignments should be completed independently by the students. Parental support is encouraged, but the effort should reflect the child's own capabilities.
3. Try conversing in English to help the become portable with the language.
4. Ensure that all work is completed within the given time frame.
5. Holidays homework will be assessed and carry weight in evaluations across all subjects.
6. Children are likely to follow their routine if we give them Positive instructions and lots of praise/appreciation for what they do right.
7. Science week is celebrated in the month of July to enhance the scientific attitude.
8. Encourage daily reading. Cultivating a reading habit is key to lifelong learning.

## **DATESHEET FOR P.T.-2 EXAMS (IX & XI)**

## **DATESHEET FOR P.T.-3 EXAMS (X, XII)**

DATE	IX	XI	X	XII
JULY 07, 2026	English	Phy. Edu.	IT	Phy. Edu.
JULY 10, 2026	Hindi	Acc./Phy./Pol. Sci.	Hindi	Acc./Phy./Pol. Sci.
JULY 14, 2026	Science	English	Science	English
JULY 17, 2026	S.St.	B.Std./Chem./Hindi	S.St.	B.Std./Chem./Hindi
JULY 21, 2026	Maths	Eco./Bio./Maths	Maths	Eco./Bio./Maths
JULY 24, 2026	IT.	Music	English	Music

**School will reopen on July 01, 2026 (Wednesday)**

**Holidays Homework will be uploaded on E-Care and our website.**

**Wishing you all a joyful, relaxing and enriching Summer Break  
Enjoy, Enrich, Empower!**



# Happy Summer Holidays



# HOLIDAYS HOMEWORK FOR CLASS - X

SESSION : 2026-27

## ENGLISH

- Learn full syllabus whatever you have done in class.

### File work:-

1. Cover page
2. Index
3. Certificate
4. Acknowledgement

### Main Content:-

1. Auto Biography of Nelson Mandela
2. Prepare extract based (20 Question of Each chapter)
3. Write the summaries of the poem "The Tiger in the Zoo" and "How to tell wild animals".
4. Collect the information about any 5 writers or poets from your syllabus and write in your file.

### Practice book work:-

- Solve 4 unseen comprehensions
- \* 2 Editorials and 2 placing an order letters
- \* Solve 6-10 Grammar Editing exercises

## MATHS

1. The A.P. 8, 10, 12, .... has 60 terms. Find the sum of last 10 terms.
2. Find the middle term of A.P. 6, 13, 20, 230.
3. Find the zeroes of the quadratic polynomial  $2x^2 - (1+2\sqrt{2})x + \sqrt{2}$  and verify the relationship between the zeroes and coefficients of the polynomial.
4. Solve the following system of equations graphically:  
 $2x + y = 6$ ,  $2x - y - 2 = 0$ . Find the area of the triangle so formed by two lines and x-axis.
5. Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.
6. Which term of the A.P: 65, 61, 57, 53, ..... is the first negative term?
7. Prove that  $\sqrt{3} + \sqrt{5}$  is an irrational number.
8. If the zeroes of the polynomial  $x^2 + ax + b$  are reciprocal to each other, then prove that  $b = 1$

9. The fifth term of an A.P. is 13 and the ninth term is 25. Find the A.P. and the sum of its first 15 terms.
10. In triangle ABC, D and E are points on AB and AC, respectively, such that  $DE \parallel BC$ . If  $AD:DB = 3:4$  and  $AE = 6$  cm, find EC. Also prove that  $\triangle ADE \sim \triangle ABC$ .
11. A fruit vendor has 990 apples and 945 oranges. He packs them into baskets. Each basket contains two fruits but in equal numbers. Find the number of fruits to be put in each basket to have the minimum number of baskets.
12. The taxi charges in a city consist of a fixed charge together with the charge for the distance covered. For a distance of 10 km, the charge paid is 105 and for a journey of 15 km, the charge paid is 155. What are the fixed charges and the charge per km? How much does a person have to pay for travelling a distance of 25 km?
13. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $f(x) = x^2 - 4x - 5$  then find the value of  $\alpha^2 + \beta^2$  and  $1/\alpha + 1/\beta$ ?
14. Two water taps together can fill a tank in 9 hours 36 minutes. The tap with the larger diameter takes 8 hours less than the smaller one to fill the tank separately. Find the time in which each tap can separately fill the tank.
15. An express train takes 1 hour less than a passenger train to travel 132 km between Mysore and Bangalore (without taking into consideration the time they stop at intermediate stations). If the average speed of the express train is 11 km/h more than that of the passenger train, find the average speeds of the two trains.
16.  $\alpha$  and  $\beta$  are zeroes of a quadratic polynomial  $x^2 - ax - b$ . Obtain a quadratic polynomial whose zeroes are  $3\alpha + 1$  and  $3\beta + 1$ .
17. Solve the following system of linear equations  $7x - 2y = 10$  and  $8x + 7y = 30$  and verify your answer.
18. The ratio of the 10th term to its 30th term of an A.P. is 1 : 3 and the sum of its first 6 terms is 42. Find the first term and the common difference of A.P.
19. The coordinates of the centre of a circle are  $(a, a + 2)$ . Find the value(s) of  $a$  if the circle passes through the point  $(4, 2)$  and has diameter 8 units.
20. Find the ratio in which the y-axis divides the line segment joining the points  $(-6, 7)$  and  $(2, 3)$ . Also find the point of intersection.

21. Find the discriminant of the quadratic equation  $4x^2 - 5 = 0$  and hence comment on the nature of roots of the equation.

Complete your lab manual and 20 -20 book

## **SOCIAL SCIENCE**

### **1. Make project work on any one of the following topic:**

consumer rights or social issues or sustainable development

Paste proper picture with related topic

### **2. Map work**

Ls-1(Geo.) Major types of Soil

Ls-2 (Geo.) Locate and label following dams

- |                      |                  |
|----------------------|------------------|
| 1. Sahal             | 2. Bhakra Nangal |
| 3. Tehri             | 4. Hirakud       |
| 5. Rana Partap Sagar | 6. Tungabhadra   |

### **Ls- 4 (Geo.)**

1. States leading producers of rice
2. States leading producers of wheat
3. State leading producers of tea and coffee
4. State leading producers of sugarcane, rubber
5. State leading producers of cotton, jute

### **Map related with Ls-1 (His.)**

### **Revise P.T.3 syllabus**

Ls- 3 (Geo.) Water Resource

Ls- 2 (Pol. Sci.) Federalism

Ls- 2 (His.) Nationalism in India

Ls- 3 (Eco.) Money and credit

## CHEMISTRY

Ch. 2: Acids, Bases and Salts

Ch. 3: Metals and Non-Metals

**Instructions:** Answer all questions in your homework notebook. Draw neat labelled diagrams wherever necessary.

### Ch. 2: Acids, Bases and Salts

Q1. Define acid and base as per Arrhenius theory. Give two examples of each.

Q2. What happens when dilute hydrochloric acid is added to sodium carbonate? Write the chemical equation.

Q3. Why does dry HCl gas not change the colour of dry blue litmus paper?

Q4. What is an olfactory indicator? Name two substances that can be used as olfactory indicators.

Q5. What is meant by pH? What is the pH of: (i) Gastric juice (ii) Blood (iii) Distilled water?

Q6. How is sodium hydroxide manufactured by chlor-alkali process? Explain with equation.

Q7. Name the acid present in: (i) Vinegar (ii) Orange (iii) Ant sting (iv) Curd

Q8. What is Plaster of Paris? How is it obtained from gypsum? Write two uses.

Q9. Why should curd and sour substances not be kept in brass and copper vessels?

Q10. Explain why an aqueous solution of sodium chloride is neutral but an aqueous solution of sodium carbonate is basic.

Q11. Give the chemical name and formula of bleaching powder. How is it prepared?

Q12. What is water of crystallisation? Write the formula and colour of hydrated copper sulphate.

Q13. A milkman adds a small amount of baking soda to fresh milk. Why does he do so?

Q14. What are strong acids and weak acids? Give two examples of each.

Q15. Write balanced chemical equations for the reaction of:

(i) Dilute sulphuric acid with zinc granules

(ii) Sodium hydroxide with hydrochloric acid

### Ch. 3: Metals and Non-Metals

Q16. Why are metals good conductors of electricity while ionic compounds conduct electricity only in molten state or in solution?

Q17. Why is sodium kept immersed in kerosene oil?

Q18. Write electron dot structures of sodium, oxygen and magnesium.

Q19. Distinguish between a mineral and an ore.

Q20. Name the metals which are found in nature in free state. Why?

Q21. Why is aluminium extracted by electrolytic reduction? Name the ore of aluminium.

Q22. What is a thermite reaction? State its use with chemical equation.

Q23. Define alloy. Write composition and uses of: (i) Brass (ii) Stainless steel

Q24. Why do ionic compounds have high melting and boiling points?

Q25. What is aqua regia? Which metals can dissolve in it?

Q26. Give reasons:

(i) Platinum, gold and silver are used to make jewellery.

(ii) Aluminium foils are used to wrap food items.

Q27. What is anodising? Why is it done?

Q28. Differentiate between roasting and calcination with one example of each.

Q29. What is reactivity series? Write the names of metals in decreasing order of reactivity.

Q30. What happens when:

(i) Zinc is added to copper sulphate solution

(ii) Iron nails are dipped in copper sulphate solution? Write equations.

Q31. Name two metals which can displace hydrogen from dilute acids and two metals which cannot.

Q32. What are amphoteric oxides? Give two examples and write their reaction with NaOH.

Q33. Explain how the following metals are obtained from their compounds by reduction process:

(i) Metal X which is low in reactivity series

(ii) Metal Y which is in middle of reactivity series

Q34. What is corrosion? Write the conditions necessary for rusting of iron. How can it be prevented?

## PHYSICS

- 1) An object is placed 25 cm in front of a concave lens of focal length 25 cm. find the location and nature of image.
- 2) A pen 3cm in length is kept 30cm away from a convex lens of focal length 20cm.calculate the size and the nature of the image formed. Also, draw the ray diagram.
- 3) A 5 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 20 cm. The distance of the object from lens is 30 cm. determine the position, nature and size of image formed.
- 4) A convergent lens of power 8 D is combined with a divergent lens of power -10 D. Calculate (a) power of combination (b) focal length of combination.
- 5) An object 7 cm high is kept at a distance of 15 cm from a convex lens of focal length 20 cm. Find the position, size and magnification of the image. Also, find the power of lens.
- 6) What is the nature of the image formed by a lens, if it produces positive magnification?
- 7) Two lenses of focal length 15 cm and 30 cm are given. What will be the power of the combination of lenses.
- 8) A convex lens of focal length 20 cm can produce a magnified virtual as well as real image. Is this a correct statement? If yes where shall the object be placed in each case for obtaining these images.
- 9) Which lens would you prefer to use while reading small letters from a dictionary?
- 10) A ray of light passing through which part of the lens goes undeviated?
- 11) What is scattering of light? Why does the cleat sky appear blue?
- 12) Draw a labelled diagram to show (a) dispersion of a beam of white light (b) formation of a rainbow.
- 13) A doctor has prescribed a corrective lens of power -1.2 D to a person suffering from which defect of vision.
- 14) A myopic person having far point 80 cm uses spectacles of power -1 D. how far can he see?
- 15) How does the size of particles and wavelength of light affect the scattering?
- 16) A person cannot see the object beyond 5 cm distinctly. State the focal length of lens required to correct this defect of vision.
- 17) What is the importance of accommodation in human eye? Write the range of normal human eye.

# **BIOLOGY**

## **Assignment Write In Biology Notebook**

### **1) Answer the following**

- A) which hormone is responsible for the changes noticed in females at puberty
- B) dwarfism results due to deficiency of which hormone
- C) iodine is necessary for the synthesis of which hormone

### **2) [A] \* (i) Define a reflex arc.**

- Why have reflex arcs evolved in animals ?
- Trace the Sequence of events which occurs, when you suddenly touch a hot object
- (ii) Name the part of Nervous system which helps in communication between the center Nervous system and the other parts of the body.
- What are the two components of this system

**Or**

### **[B] \* (i) Leaves of 'chhui-mui' plant began to fold up and droop in response to a stimulus.**

- Name the stimulus and write the cause for such a rapid movement.
- Is there any growth involved in the movement?
- (ii) Define geotropism in plants.
- What is meant by positive and negative geotropism?
- Give any example of each type.

**3) What constitutes the central and peripheral nervous system? How are the components of central nervous system protected? What signals will get disrupted in case of a spinal cord injury?**

**4) Nervous and hormonal system together perform the function of control and coordination in human beings. Identify this statement with the help of an example.**

5) \* **[a]** draw the structure of a neuron and label the following on it : Nucleus, dendrite, cell body and axon

- **[B]** name the part of neuron

(i) where information is acquired

(ii) through which information travels as an electrical impulses

(iii) where the electric impulse must be converted into a chemical signal for onward transmissions

6) Give the function(s) of the following plant hormones:

- (i) Auxin      (ii) gibberellins      (iii) cytoplasm      (iv) abscisic acid      (v) ethylene

7) What is a cerebrospinal fluid? What it's function?

8) \* (i) List three points of difference between nervous system and hormonal mechanisms for control and. Coordination in animals

- (ii) How are auxins related with bending of plant shoot towards unidirectional light ?

Explain

9) Deferential between nervous system and hormone system

10) \* (a) define hormone. Write four characteristics of hormone in human.

- (b) name the disorder caused by the following situation

○ (i) under secretion of growth hormone

○ (ii) over secretion of growth hormone

○ (iii) under secretion of insulin

○ (iv) deficiency of iodine.

- Write all the experiments in your Practical file.

- Learn chapter 1, 2, 5, 6, 9 and 10

# **INFORMATION TECHNOLOGY**

**Prepare a project file on this Topics**

- 1) Self- regulation
- 2) Sustainable development
- 3) Data & Information
- 4) Stay Alert Don't Get Hurt (Pg. No. 837)
- 5) Data transfer on internet
- 6) Web browser relationship
- 7) Types of communication
- 8) Components of desktop
- 9) Data types

**Revise Lesson - 1, 2, 3, 6, 7**

**P.T-3 Syllabus - Ls. 3 & 7**

# HOLIDAYS HOMEWORK

## कक्षा – 10

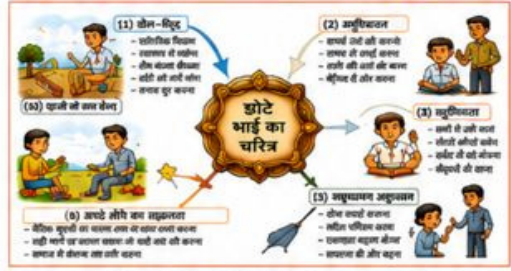
### सूचना:

- आपके विद्यालय का समय शीतकाल में कोहरे के कारण प्रातः सात बजे के स्थान पर नौ बजे कर दिया गया है। प्रधानाचार्य की ओर से इसकी सूचना तैयार कीजिए।
- आपको अपने विद्यालय में एक कीमती घड़ी पड़ी मिली है। अपने विद्यालय के सूचना पत्र हेतु इसकी सूचना तैयार कीजिए।



### विज्ञापन:

- पर्यावरण के प्रति जागरूकता बढ़ाने के लिए एक विज्ञापन तैयार कीजिए।
- खोए हुए बच्चे को ढूँढने हेतु विज्ञापन तैयार कीजिए।
- आपके शहर में नया शाकाहारी होटल खुला है, जिसमें ₹500 या उससे अधिक के ऑर्डर पर निःशुल्क होम डिलीवरी की सुविधा उपलब्ध है। इसका एक विज्ञापन तैयार कीजिए।



### लघु कथा:

- जैसे को तैसा
- गया समय फिर नहीं आता

### ई-मेल:

- पाठ्यक्रम का बोझ कम करने के लिए केंद्रीय माध्यमिक शिक्षा बोर्ड के अध्यक्ष को ई-मेल लिखिए।



### गतिविधि:

- बड़े भाई साहब
- तातार-वामीरो
- मीरा के पद

## ★ पीटी-3 की तैयारी करें ★

- कविता – मनुष्यता
- पाठ-4 (तीसरी कसम)
- पाठ-5 (अब कहाँ दूसरे के दुख से सुखी होने वाले)

- व्याकरण: मुहावरे, समास
- लेखन कार्य: विज्ञापन, ई-मेल

**व्याख्या – पद 1: दुःख निवारण**

इस पद में मीरा जी कुण्ज के प्रति अपनी अटूट भक्ति और उपासना करती हैं और अपने भावों और दुःखों को उनसे कहती हैं। हर एक सच्ची सत्संग का विचारण केवल प्रभु ही कर सकते हैं।

**मीरा की विनती**

हे परमात्मा! मेरे दुःख दूर कर दो।  
आप अपने परलौ में मुझे सत्संग में लाओ।

आप अपनी महिमा से अज्ञान का नाश करते।

**दीपके की संगत**

संतों की संगत से मन को शक्ति मिलती है। उनके ज्ञान और भक्ति की शक्ति होती है।

**भक्त प्रह्लाद की रक्षा**

भगवान ने प्रह्लाद की सच्ची भक्ति को देखकर उसकी रक्षा की।

**रेसदार हाथी का उद्धार**

भगवान ने भक्तों की रक्षा के लिए सब प्रकार के सौकर दूर किए।

सच्ची भक्ति से सब शीत होती है।  
हाथी को बचाया और उसका सम्मान किया।

एकमीवृत्तवारेतु सर्वदः मीरा के पद – सारांश

**व्याख्या – पद 2: अन्य भक्ति और दर्शन**

इस पद में मीरा जी कुण्ज के प्रति अपनी अटूट भक्ति को प्रयास करती हैं और बताती हैं कि सच्चे प्रेम और समर्पण से ही भक्ति सफल होती है – चाहे वह धन, वैभव, पद या कठोर तपस्या क्यों न हो।

**मीरा का समर्पण**

हे परमात्मा! मुझे अपना बना।  
आपके बिना मेरा जीवन अधूरा है।

मीने आपने और कल्पों के संकेतों को देखना कर हीने है।

**तीन पापों से बचने का संदेश**

लोभ, झूठ, द्वेष।  
इनसे बचें और सत्य और प्रेम का मार्ग अपनाएं।

**श्री कुण्ज का रूप-दर्शन**

हे भक्तजन! मुझे अपने दर्शन दो।  
हे भक्तजन! शरीर दर्शन दो।  
आप ही मेरे ही आराम हैं।

आपका रूप देखाकर मन प्रसन्न हो जाता है।

**आसी रत का दर्शन**

तपस्या और ध्यान से ही भगवान का साक्षात्कार होता है।

हे मेरे प्रभु! मैं आपसे मिलने कि राह नहीं सकती।

मीरा सुबह का इंतजार नहीं कर सकती!