



# GOLDEN GATE GLOBAL SCHOOL

## Summer Holiday Homework 2024-25

Dear Students,

*Children are amazing...cherish them*

*They are believable...trust them*

*They are childlike...let them*

*They are energetic...nourish them*

*Here now, be with them...*

*Innocent, delight in them... Magical, fly with them...*

### **BONDING TIME**

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of "Fun and Learn" The activity-based assignments will foster curiosity, develop creativity, enhance knowledge and instil the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection. As it is well recognized that Golden Gate Global School not only focuses on academics but lay equal importance on Co-scholastic Competencies. The school also desires you to adhere to the following guidelines for a fulfilling break:

### **REMEMBER**

- Neatness and presentation are common parameters for most of the activities assigned.
- Please maintain the quality of work done.
- Complete and submit the holiday homework according to the dates given. Note down these dates carefully as late submission after these dates is not acceptable and you will be losing the marks/grades for the same if you miss the date.
- Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.

***GGGS .... Because YOU deserve THE BEST !!!***

- Make sure that all syllabus done till May must be revised thoroughly in the last two weeks of June as it will help you to retain and adjust after the long break.

### **BE A WONDERFUL HUMAN BEING:**

- Follow a schedule during holidays. Be a good time manager.
- Read newspapers daily and stay updated with current affairs.
- Do the homework independently, only ask for assistance from your parents or guardians.
- Give time to pursue your hobby.
- Appreciate nature and go for “Nature Walks”, plant trees and spread the message of Nature Conservation.
- Watch some good movies with your ward on love, compassion, humanity, kindness, forgiveness etc.
- Talk about the importance of parents and elders. Have at least 4-5 meals together.

Remember

**“EVERY ACTION IS IMPORTANT AND EVERY DEED IS VITAL.....”**

**Wishing all the students a joyful learning and Happy Holidays.  
EXPLORE LEARNING TOGETHER...**

### **Important points to remember**

- **The school will reopen on- GRADES IX-XII on 04/07/2024**
- The school office will remain OPEN during the summer vacation on all working days.
- Clear all kind of your dues (if any) at the earliest to avoid late fine and further inconvenience.

### **Dates for submission of Holiday homework**

#### **GRADES IX-XII**

**08/07/2024- Maths & English**

**09/07/2024-SST & Science**

**10/07/2024- Hindi & Computers**

**NOTE: Holiday Homework will not be accepted after the dates assigned for each.**

***GGGS .... Because YOU deserve THE BEST !!!***

Grade - X

H.H.W.

Subject

English

English links

Reading Comprehension :

Worksheet : R -02, R-05, R-07

Writing Skills :

WS : 01 , 02 and 03

Grammar :

Tenses - G-05 , G-06

Determiners – G -02

Modals – G- 10,G-11

Hindi

निम्नलिखित प्रश्नों के उत्तर लिखिए –

1. 'बालगोबिन भगत' प्रचलित मान्यताओं को नहीं मानते थे। किस घटना के आधार पर यह सिद्ध होता है ?

2. 'मोह और प्रेम में अंतर होता है। 'बालगोबिन भगत के जीवन की किस घटना के आधार पर आप इस कथन को सत्य सिद्ध करेंगे।

3. भगत की पुत्रवधू उन्हें अकेला क्यों नहीं छोड़ना चाहती थी ?

4. बालगोबिन भगत अपने सुस्त और बोदे से बेटे के साथ कैसा व्यवहार करते थे और क्यों ?

5. खेती से जुड़े गृहस्थ बालगोबिन भगत अपनी किन चारित्रिक विशेषताओं के कारण साधु कहलाते थे ?

6. भगत की पुत्रवधू ने अकेले कहानी छोड़ना चाहती थी ?

7. धान की रोपाई के समय समूचे माहौल को भगत की स्वर लहरियां किस तरह चमत्कृत कर देती थीं ?

8. बाल गोबिन भगत के मधुर गायन की विशेषताएं बताओ।

9. बालगोबिन भगत की दिनचर्या लोगों के अचरज का कारण क्यों थी ?

10. बाल गोबिन भगत की कबीर पर श्रद्धा किन किन रूपों में प्रकट हुई है?

11. सेनानी ना होते हुए भी चश्मे वाले को लोग कैप्टन क्यों कहते थे ? 68

12. " बार - बार सोचते , क्या होगा उस कौम का जो अपने देश की खातिर घर - गृहस्थी - जवानी - जिंदगी सब कुछ होम देने वालों पर हैसती है और अपने लिए बिकने के मौके ढूंढती है। "

13. "वह लंगड़ा क्या जाएगा फौज में पागल है पागल" कैप्टन के प्रति पान वाले की इस टिप्पणी पर अपनी प्रतिक्रिया लिखिए।

14 .जब तक हालदार सामने कैप्टन को साक्षात देखा नहीं था तब तक उनके मानस पटल पर उसका कौन सा चित्र रहा होगा, अपनी कल्पना से लिखिए ।

15 .आप अपने हलाके के चौराहे पर किस व्यक्ति की मूर्ति स्थापित करवाना चाहेंगे और क्यों? '

16 .पत्थर की मूर्ति पर पत्थर का चश्मा ना होने के क्या-क्या कारण बताए गए हैं ?

17 .मूर्ति का चश्मा कैसे बदल जाता था ?

18 .नगर पालिका क्या-क्या काम करवाती थी ? ' नेताजी का चश्मा 'पाठ के आधार पर बताइए ।

( काव्य भाग )

19.गोपियां द्वारा उद्धव को भाग्यवान कहने में क्या व्यंग्य निहित है ?

20 . उद्धव द्वारा दिए गए योग के संदेश ने गोपियों की विरहाग्नि में घी का काम कैसे किया

21 .कृष्ण के प्रति अपने अनन्य प्रेम को गोपियों ने किस प्रकार अभिव्यक्त किया है

22 .गोपियों को ऐसा क्यों लगता है कि कृष्ण की बुद्धि अब और बढ़ गई है ।

23 .सूर के पद ' हरि है राजनीति पढ़ि आए ' का मूल स्वर व्यंग्य है । स्पष्ट कीजिए

24 .गोपियों के अनुसार राजधर्म क्या होना चाहिए

25 .परशुराम की स्वभावगत विशेषताएं क्या है ? पाठ के आधार पर लिखिए

26 .परशुराम के क्रोध का मूल कारण क्या था ? स्पष्ट कीजिए ।

27 . 'लक्ष्मण क्रोध रोककर परशुराम के कठोर वचनों को सह रहे थे - इस संबंध में लक्ष्मण ने अपने कुल की क्या मर्यादाएँ बताई हैं ?

28.परशुराम ने सभा से किस कार्य का दोष उन्हें ना देने के लिए कहा

29 . स्वयंवर स्थल पर शिव धनुष तोड़ने वाले को परशुराम ने किस प्रकार धमकाया ?

30 : ' धनुष को तोड़ने वाला कोई तुम्हारा दास होगा ' - के आधार पर राम के स्वभाव पर टिप्पणी कीजिए ।

## Maths

- Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.  
(i)  $5x^2 - 29x + 20$       (ii)  $x^2 - 5x$
- Form the quadratic polynomials whose zeroes are (i)  $3 \pm \sqrt{2}$  (ii)  $-\sqrt{2}$  and  $\sqrt{2}$
- Find all the zeroes of  $x^3 + 6x^2 + 11x + 6$  if  $(x+1)$  is a factor.
- Find all the zeroes of  $x^3 - 10x^2 + 31x - 30$  if 2 is a zero of it.
- Find the values of 'a' and 'b', if 2 and 3 are zeroes of  $x^3 + ax^2 + bx - 30$
- Divide  $x^4 - 4x^3 + 8x^2 + 7x + 10$  by  $(x-2)$  and verify the division algorithm.
- Find the value of 'k', if  $(x-2)$  is a factor of  $x^2 - kx + 10$ .
- Find the value of 'm', if 2 is a zero of  $3x^2 - 17x + m$ .
- Find all the zeroes of  $4x^4 - 20x^3 + 23x^2 + 5x - 6$  if two of its zeroes are 2 and 3.
- If  $\alpha$  and  $\beta$  are the zeroes of  $x^2 + 5x + 6$ , find the value of  $\alpha^{-1} + \beta^{-1}$ .
- If  $\frac{1}{2}$  and 1 are the zeroes of  $2x^4 - 3x^3 - 3x^2 + 6x - 2$ , find the other zeroes.
- If one of the zeroes of the polynomial  $5x^2 + 13x - p$  is the reciprocal of the other, find 'p'.
- On dividing the polynomial  $4x^4 - 3x^3 - 42x^2 - 55x - 17$  by the polynomial  $g(x)$  the quotient is  $x^2 - 3x - 5$  and the remainder is  $5x + 8$ . Find  $g(x)$ .
- Verify that 1, 2 and  $\frac{1}{2}$  are zeroes of  $2x^3 + x^2 - 5x + 2$ . Also, verify the relationship between the zeroes and the coefficients.
- If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $x^2 - kx + 15$  such that  $(\alpha + \beta)^2 - 2\alpha\beta = 34$ , find 'k'.
- If one zero of polynomial  $2x^2 - 3x + p$  is 3, then find the other root. Also, find the value of 'p'.
- If  $\alpha$  and  $\beta$  are the zeroes of the quadratic polynomial  $ax^2 + bx + c$ , find the value of  $\frac{1}{\alpha}$  and  $\frac{1}{\beta}$ .
- If  $\alpha$  and  $\beta$  are the zeroes of  $2x^2 - 9x + 10$ , form the polynomial whose zeroes are  $\frac{1}{\alpha}$  and  $\frac{1}{\beta}$ .
- The curve which represents a quadratic polynomial meets the X-axis at (2, 0) and (-2, 0). Form the quadratic polynomial.
- Find the values of 'a' and 'b' such that  $x^4 + x^3 + 8x^2 + ax + b$  is exactly divisible by  $x^2 + 1$ .
- If the polynomial  $p(x) = x^4 - 6x^3 + 16x^2 - 25x + 10$  divided by  $x^2 - 2x + k$ , the remainder is  $x + a$ . Find 'k' and 'a'.
- The zeroes of  $x^2 - kx + 6$  are in the ratio 3:2, find 'k'.
- What must be subtracted from  $8x^4 + 14x^3 - 2x^2 + 7x - 8$  so that the resulting polynomial is exactly divisible by  $4x^2 + 3x - 2$ ?
- What must be added to  $4x^4 + 2x^3 - 2x^2 + x - 1$  so that the resulting polynomial is exactly divisible by  $x^2 + 2x - 3$ ?
- Divide  $2x^2 + 4x^3 + 5x - 6$  by  $2x^2 + 1 + 3x$  and verify the division algorithm.

## Science

Q1. Three students A, B and C focused a distant building on a screen with the help of a concave mirror. To determine focal length of the concave mirror they measured the distances as given below:

Student A: From mirror to the screen

Student B: From building to the screen

Student C: From building to the mirror

Who measured the focal length correctly?

(a) Only A (b) Only B (c) A and B (d) B and C

Q2. To determine the approximate focal length of the given convex lens by focusing a distant object (say, a sign board), you try to focus the image of the object on a screen. The image you obtain on the screen is always:

(a) erect and laterally inverted (b) erect and diminished

(c) inverted and diminished

(d) virtual, inverted and diminished

Q3. A student has obtained a point image of a distant object using the given convex lens. To find the focal length of the lens he should measure the distance between the:

(a) lens and the object only (b) lens, and the screen only

(c) object and the image only (d) lens and the object and also between the object and the image

Q 4. "A concave mirror of focal length ' $f$ ' can form a magnified erect as well as an inverted image of an object placed in front of it." Justify this statement stating the position of the object with respect to the mirror in each case for obtaining these images.

Q5. The linear magnification produced by a spherical mirror is +3. Analyse this value and state the (i) type of mirror and (ii) position of the object with respect to the pole of the mirror. Draw a ray diagram to show the formation of image in this case.

Q6. An object placed on a metre scale at 8 cm mark was focused on a white screen placed at 92 cm mark, using a converging lens placed on the scale at 50 cm mark.

(i) Find the focal length of the converging lens.

(ii) Find the position of the image formed if the object is

shifted towards the lens at a position of 29.0 cm.

(iii) State the nature of the image formed if the object is further shifted towards the lens.

Q7. To construct a ray diagram we use two light rays which are so chosen that it is easy

to know their directions after reflection from the mirror. List these two rays and state the path of these rays after reflection. Use these two rays to locate the image of an object placed between infinity and the centre of curvature of a concave mirror.

(b) a ray diagram to show the formation of image of an object placed between the pole and principal focus of a concave mirror. How will the nature and size of the image formed change, if the mirror is replaced by a converging lens of same focal length?

Q8. A student focussed the image of a distant object using a device X on a white screen S as shown in the figure. If the distance of the screen from the device is 30 cm, select the correct statement about the device X.

(A) The device X is a concave mirror of focal length 15 cm

(B) The device X is a concave mirror of focal length 30 cm.

(C) The device X is a concave mirror of radius of curvature 30 cm.

(D) The device X is a convex mirror of focal length 30

Q9. A student traces the path of a ray of light through a rectangular glass slab for four different angles of incidence. He very cautiously measures the angle  $i$ , angle  $r$  and the angle

e. On analysing his measurements, he is likely to draw the following conclusion:

(a)  $\angle i = \angle e > \angle r$       (b)  $\angle i > \angle r > \angle e$

(c)  $\angle i = \angle r < \angle e$       (d)  $\angle i = \angle e < \angle r$

Q10. "A convex lens of focal length 'F' can form a magnified erect as well as inverted image." Justify this statement stating

the position of the object with respect to the lens in each case for obtaining these images.

Q11. A student focused the image of an object on a white screen using a converging lens. He noted down the positions of the object, screen and the lens on a scale as given below:  
Position of object = 10.0 cm Position of lens = 50.0 cm  
Position of screen = 90.0 cm

- (a) Find the focal length of the converging lens.
- (b) Find the position of the image if the object is shifted towards the lens at a position of 30.0 cm.
- (c) State the nature of the image formed if the object is further shifted towards the lens.

Q12. (a) To construct a ray diagram we use two rays which are so chosen that it is easy to know their directions after reflection from the mirror. List two such rays and state the path of these rays after reflection in case of concave mirrors. Use these two rays and draw ray diagram to locate the image of an object placed between pole and focus of a concave mirror.

(b) A concave mirror produces three times magnified image on a screen. If the object is placed 20 cm in front of the mirror, how far is the screen from the object?

Biology:

Multiple Choice Questions :

1. 1. How is 'respiration' different from 'breathing'? Explain the process of aerobic and anaerobic respiration.
2. I) Name the blood vessel that brings oxygenated blood to the human heart.  
II) Which chamber of the heart received oxygenated blood?  
III) Explain how is the oxygenated blood from this particular chamber sent to all the body parts?
3. Explain the schematic representation of gaseous exchange in tissues.
4. Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structures and



functioning?

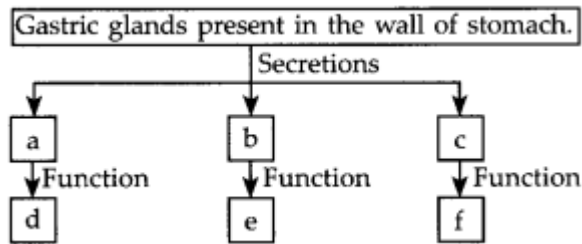
5. What is the significance of emulsification of fats?

6. Why is the small intestine in herbivores larger than in carnivores?

7. What is the advantage of a four-chambered heart?

8. Explain the process by which inhalation occurs during breathing in human beings?

9. Complete the following flow chart as per the given instructions.



10.(a) State the role played by the following in the process of digestion :

(i) Enzyme trypsin

(ii) Enzyme lipase-

(b) List two functions of finger-like projections present in the small intestine.

11. Explain the significance of photosynthesis. Write the balanced chemical equation involved in the process.

12.(a) What is peristaltic movement?

(b) 'Stomata remain closed in desert plants during daytime'. How do they do photosynthesis?

13.(a) State the form in which the following are stored:

(i) Unused carbohydrates in plants.

(ii) The energy derived from food in humans,

(b) Describe the process of nutrition in Amoeba with the help of diagram.

14. In the process of respiration, state the function of alveoli.

(b) Rate of breathing in aquatic organisms is much faster than that in terrestrial organisms. Give reasons.

(c) Complete the following pathway showing the breakdown of glucose.

(a) Why is there a difference in the rate of breathing between

aquatic organisms and terrestrial organisms?)

(a) State reasons for the following:

- (i) Herbivores need a longer small intestine while carnivores have shorter, small intestine.
- (ii) The lungs are designed in human beings to maximise the area for exchange of gases.

15.

a) Draw a diagram of human respiratory system and label: Trachea, Bronchi and Diaphragm.

(b) Give reasons for the following:

- (i) Lungs always contain residual volume.
- (ii) Nostrils are lined with mucus.

16. Which one of the following statements is correct about the human circulatory system?

- (a) Blood transports only oxygen and not carbon dioxide.
- (b) Human heart has five chambers.
- (c) Valves ensure that the blood does not flow backwards.
- (d) Both oxygen – rich and oxygen – deficient blood gets mixed in the heart.

17. Write two water conducting tissues present in plants. How does water enter continuously into the root xylem?

(b) Explain why plants have low energy needs as compared to animals.

What do the following transport?

- (i) Xylem
- (ii) Phloem
- (iii) Pulmonary vein
- (iv) Vena cava
- (v) Pulmonary artery
- (vi) Aorta

INTERDISCIPLINARY PROJECT

Students will prepare a PPT on the allotted topic & give class presentation on the same

TOPICS:

Production across the countries (Roll No. 1 to 7)

Chinese toys in India (Roll No. 8 to 14)

World Trade Organization (Roll No. 15 to 21)

**S.Studies**

The struggle for a fair Globalization (Roll No. 22 to 30)

Objective:

Students will analyse the topics thoroughly which not only improve their knowledge but also focus on the skills of giving presentation that will help in their future endeavors and improve their communication skill

Grade: X A COMPUTER APPLICATIONS (0165)

**Prepare the documents in Ms Word on the following topics. Page should be well formatted with the following-**

- 1. Page Number, Page Border, Page color, Formatted table showing the different types of file functions.**
- 2. Insert 2-3 relevant pictures.**

SN	STUDENT NAME	TOPIC NAME
1	AAHANA GHAWRI	Introduction to HTML.
2	AKSHARA DHINGRA	Exploring E-Banking Services.
3	AKSHITA NARANG	Exploring Internet Protocols.
4	AKSHARA DWIVEDI	Exploring Telnet and Its Uses.
5	ANAYA GUPTA	How Does the Internet Work?
6	DEEPANSHI SINGH	Exploring the Impact of Mobile Technology on Internet Usage.
7	DIKSHA GULATI	Exploring Web Browsers and their uses.
8	GAURISHA RASTOGI	The Influence of Social Networking Sites on Society.
9	GUNEET KAUR	Understanding E-Governance and Its Impact.
10	KANIKA GAGNEJA	Exploring The World of Online Chatting.
11	MANSHA LOCHAB	The Role of Blogs in the Online Community.
12	NAVYA YADAV	Finding People Online using different online platform like Facebook, twitter etc.
13	NIYATI DHALL	Email and The Power of Email Communication.
14	PRIYANJALI PAHWA	Exploring The Convenience of E-Shopping.
15	RIVA BHARDWAJ	Exploring E-Reservation Systems.
16	SANYA KAPAI	The Difference Between WWW and the Internet and its uses.
17	SIMRAN ARORA	Exploring different types of protocols like FTP, SMTP, POP3, HTTPS etc

Grade: X B COMPUTER APPLICATIONS (0165)

SN	STUDENT NAME	TOPIC NAME
1	AAYUSH MISHRA	The Evolution of the Internet.
2	ANSH CHAUDHARY	How Does the Internet Work?
3	ANSH GOYAL	Exploring Internet Protocols.
4	ANGH SAINI	The Future of Internet Technology.
5	ANUSHUMAN	Exploring Web Servers.
6	ARSH PUNIA	Introduction to HTML.
7	DHAIRYA GUPTA	Navigating the World Wide Web and its working.
8	GARVIT BHARDWAJ	Exploring Web Browsers and their uses.
9	JASPREET SINGH	The Influence of Social Networking Sites on Society.
10	KANISHK KHANNA	The Difference Between WWW and the Internet.
11	MADHAV GUPTA	Mastering Basic Internet Terminology.
12	MOHD. FAAZ	The Role of Blogs in the Online Community.
13	NIKHIL REVERI	Finding People Online using different online platform like Facebook, twitter etc.
14	OJASVA SHARMA	The Power of Email Communication.
15	PAARTH CHOUHDARY	Exploring Email Services.
16	SAAD ASAD KHAN	Tips and Tricks for Efficient Internet Searching.
17	SAKSHAM AGARWAL	The Magic of Search Engines.
18	SARTHAK GAGNEJA	Exploring different types of protocols like FTP, SMTP, POP3, HTTPS etc.
19	SHRESHTHE MISHRA	Introduction to FTP Protocol.
20	SIDDHANT GUPTA	Exploring Telnet and Its Uses.
21	TANISHQ GARG	Exploring Web Services.
22	UTSAV	Leveraging E-Learning Platforms for Education.
23	VARCHASV TANDON	The World of Online Chatting.
24	VEER CHAUDHARY	Exploring E-Banking Services.
25	YASH OM	Getting Started with Video Conferencing.