GANGA INTERNATIONAL SCHOOL
HOLIDAY HOMEWORK
CLASS – X

ENGLISH

1. Write an Acrostic Poem using your name on colourful A4 size paper.
2. Make detailed project on the following authors/poets on A4 size sheets and arrange it properly in a file.(Include life history, famous works, photographs etc.) Do according to your Roll number.

    William Shakespeare   (Roll No. 1-9)
    Saki (H.H. Munro)   (Roll No. 10-18)
    Satyajit Ray   (Roll No. 19-27)
    Percy Bysshe Shelly   (Roll No. 28-36)
    Vikram Seth   (Roll No. 37-45)
3. Make a list of Twenty English proverbs and their meanings. Choose the theme according to
     your Roll Number. Do on colourful A4 size sheet.
    Health   (Roll No. 1-9)
    Wisdom   (Roll No. 10-18)
    Friendship   (Roll No. 19-27)
    Unity   (Roll No. 28-36)
    Time   (Roll No. 37-45)
4. Make a list of ten unusual professions and give details about them. (Include educational
     qualification required, future prospects, job demands etc.)
5. Now a days one of the most important discussions in every family is children's studies. Develop a
     humorous conversation among parents and children over the concern for studies.
6. Write articles on the following topics with the help of the given points. (Write on A4 size sheet)

    Afforestation is the answer to Global Warming

            Plant trees and nurture them
            Organisation of 'Van Mahotsav' in schools
            Use tree guards
            Ban cutting of green trees
            Nails/iron plates not to be used
            Create awareness camps

    Adult Education in India

            India biggest democracy but majority illiterate
            Main cause of superstition, ignorance, backwardness
            Illiterates easily misled by politicians
            Cannot benefit from modern technology—poor remain poor
            Adult education for grown-ups, unable to go to school
            Most of them farmers and factory workers
            Enable them to read, write and calculate; vocational training
            Night schools can be opened
            Make it a mass movement
7. Read lesson 1-7 0f the novel 'Diary Of a Young Girl'. Write the summary of all the lessons on A4 size
     sheet.
8. Write the character sketch of Anne, Mr. Otto Frank and Peter.

9. Make a collection of 25 inspirational thoughts. Submit the soft copy (in pen drive) to the concerned teacher.
10. Make a beautiful collage on ' Education: The Best Tool'.
11. Make a poster on the theme 'Compassion' . (A3 size sheet)
12. Write stories on the following themes. (Write on A4 size papers in about 150- 200 words).
    1.'Every Drop Counts'   2. ' My Dream, My Life'
13. Read a book of any Indian Writer in English Literature and write the book review.
14. Pick 50 difficult words from the book and write their English meanings from the dictionary.
15. Visit any monument of historical importance and write a report.
16. Write your experience in the form of a diary entry.
17. Write the historical importance of the monument.
18. Interview the foreign visitors there at the site and also paste photographs with them.
19. Write speech on the topic 'My Planet, My Responsibility'.
20. Read newspaper daily.
21. Cut and paste 5 news about English language in the scrapbook.
22. Compose a beautiful poem on 'Childhood'.
23. Collect five inspiring short stories with moral lesson for publication in the school magazine.
24. Write/ collect inspiring poems on every day themes.
25. Watch English movies and write the review of the movie you liked the best.

HINDI

(i)   'सुभाष चंद्र बोस' के कार्यों का वर्णन करते हुए उनका एक सुन्दर चित्र चिपकाइए ।

(ii)   देशभक्ति पर आधारित दो कविताएं लिखिए।

(iii)   उन लोगों की सूची बनाइए जिन्होंने स्वतंत्रता आन्दोलन में भागीदारी दी (कोई दस चित्र)।

(iv)   अपनी किसी भी रोचक यात्रा का वर्णन कीजिए।

(v)   विश्व के दर्शनीय स्थलों की सूची सचित्र बनाइए।

(vi)   सामाचार पत्र में से कोई दो रोचक खबरें काटकर चिपकाइए ।

(vii)   'शिक्षा पर सबका अधिकार ' विषय पर एक सचित्र स्लोगन तैयार कीजिए।

(viii) अपने विद्यालय के वार्षिकोत्स्व के लिए एक निमंत्रण पत्र तैयार कीजिए।

(ix)   कोई एक सुन्दर विज्ञापन तैयार कीजिए।

(x)   विभिन्न पत्रिकाओं में से स्वास्थ्य संबंधी जो भी जानकारी मिले उसे सचित्र काटकर – अपनी फाइल में लगाइए।

(xi)   किसी एक लेखक / लेखिका का जीवन परिचय सचित्र लिखिए।

(xii)   अपने प्रिय पशु या पक्षी का वर्णन सचित्र कीजिए।

(xiii) कवि सूरदास के कोई पांच पद सचित्र लिखिए।

(xiv)   कवयित्री मीरा द्वारा रचित कोई दो पद लिखिए।

(xv)   श्रीकृष्ण का बाल वर्णन से संबंधित सुन्दर–सा पदों को लिखिए। सचित्र।

(xvi)   'मां' प्रेम से संबंधित एक कविता लिखिए।

(xvii) कवि देव से संबंधित सचित्र कवित्त लिखिए।

(xviii) ' मेरा आदर्श ' पर अनुच्छेद लिखिए।

(xix)   ' वसुदेव कुटुम्बकम् ' पर एक पोस्टर तैयार करें।

(xx)   समाचार पत्रों या विभिन्न पत्र– पत्रिकाओं से मज़दूरी करते हुए बच्चों के चित्र काटकर चिपकाएं। (कोई पांच)

(xxi)   घर के सदस्य जिसने आपको सबसे अधिक प्रभावित किया? उसके बारे में लिखिए।

(xxii) वाच्य भेद उदाहरण सहित लिखिए।

(xxiii) रचना के आधार पर वाक्य भेद उदाहरण के साथ लिखो।

(xxiv) उन समाचारों की एकत्रित कीजिए जिसमें दहेज प्रथा के कारण लड़की ने विवाह करने से मना किया हो।

(xxv)   कोई एक औपचारिक पत्र लिखिए।

(xxvi) कोई एक अनौपचारिक पत्र लिखिए।

MATHEMATICS

INSTRUCTIONS:
All questions are compulsory.

1. If α and β are the two zeroes of the polynomial $(ax^2 + bx + c)$, then find the value of
    (i) $(\alpha^{-1} + \beta^{-1})$
    (ii) $(\alpha^{-2} + \beta^{-2})$
    (iii) $(\alpha^3 + \beta^3)$
    (iv) $(\alpha^2 + \beta^2)$
    (v) $(\alpha^{-3} + \beta^{-3})$.
2. If M is prime number then, find the HCF and LCM of $6M$, $9M^2$, $30M^3$, $24M^4$.
3. Check whether following no. can end with the digit 0 for any natural number n.
    (i) 15^n
    (ii) 105^n
    (iii) 25^n
    (iv) 250^n
4. Using Euclid's division algorithm, find whether the following pair of numbers are co-prime or not.
    (i)   (117, 1160)
    (ii)   (45672, 160)
    (iii)   (9417, 3160)
    (iv)   (1417, 121)
    (v)   (3417, 1160)
5. Find the largest number which divides 318 and 739 leaving remainder 3 and 4 respectively.
6. Find the missing number(s) :

6	9	150
8	12	200
4	6	?

    (A) 50 (B) 100 (C) 150 (D) 231
7. Find the missing number(s) :

3C	27D	9E
7I	21K	3M
4D	?	7J

    (A) 11E (B) 28G (C) 35 (D) 48F
8. Find the missing number(s)
    101, 100, ?, 87, 71, 46.
    (A) 92 (B) 88 (C) 89 (D) 96
9. Find the HCF of following no. by the prime factorisation method. Hence find their LCM.
    (i)   (96, 404)
    (ii)   (196, 4004)
    (iii)   (296, 1404)
    (iv)   (906, 4040)
    (v)   (256, 204)
10. Factorise: $x^4 + 2x^3y - 2xy^3 - y^4$.
11. Use Euclid's division algorithm to find the HCF of following no.
    (i)   490 and 1120.
    (ii)   1190 and 212.
    (iii)   319 and 3120.
    (iv)   450 and 1012.
    (v)   458 and 112.

12. There is a circular path around a sports field. Mr. A takes 18 minutes to drive one round of the field, while Mr. B takes 24 minutes for the same, Suppose they both start from the same point and the same direction, after how many hours will they meet again at the same point.

13. Seema can row downstream 24 km in 2 hours, and upstream 6 km in 3 hours. Find her speed of rowing in still water and the speed of the current.

14. Solve the following pairs of equations by reducing them to a pair of linear equations:
    (i) $6x + 3y = 6 xy$
             $2x + 4y = 5 xy$
    (ii) $2/\sqrt{x} + 3/\sqrt{y} = 2$
             $4/\sqrt{x} - 9/\sqrt{y} = -1$

15. An army contingent of 1017 members is to march behind an army band of 144 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?

16. If $5 \sin\theta + 3 \cos\theta = 4$, find the value of $3 \sin\theta - 5 \cos\theta$.

17. Prove that following identities using $A=60^0$.
    (i) $\text{Sin}^2 A + \text{Cos}^2 A=1$ (ii) $\text{Sec}^2 A - \text{Tan}^2 A=1$ (iii) $\text{Cosec}^2 A - \text{Cot}^2 A=1$

18. Explain why following number is composite number.
    (i) 21 x 441 + 210
    (ii) 21 x 341 x 21 x 441 + 341+21 x 341
    (iii) 21 x 5141 x 21 x 441 + 5141
    (iv) 21 x 344 x 21 x 441 + 4410
    (v) 21 x 341 x 21 x 441 + 441

19. Show that one and only one out of n, n+2, n+4 is divisible by 3, where n is any positive integer.

20. Find the quadratic polynomial, the sum of whose zeroes is (5/2) and their product is 1.Hence, find the zeroes of the polynomial.

21. Prove that following are irrational.
    (i) $\sqrt{5}$
    (ii) $7+\sqrt{5}$
    (iii) $17\sqrt{5}$
    (iv) $23/\sqrt{5}$

22. If $\sqrt{2}$ is one zero of the polynomial $(2x^4-3x^3-3x^2+6x-2)$, find all the zeroes of the given polynomial

23. The cards marked with the numbers 1 to 200 are placed in a box and mixed thoroughly. One card is drawn
    from this box, find the probability that the number on card is
    (i) A composite number
    (ii) A number less than 35
    (iii) A number which is a prefect square.
    (iv) A prime number less than 150.
    ACTIVITY :-

24. Prepare a project on Surface Areas and Volumes.

25. Make a project on the contributions by mathematicians of Indian origin to the field of mathematics.

26. Suppose you are the captain of a cricket team you have to make arrangement of your fielders in the field, taking middle stamp of batsman as origin and width of the ground as X-axis and length as Y- axis prepare a lay out plan for the ground. Assume players be A, B, C, D, E, F, G, H, I , J, K.
    (i) Locate the Co- ordinates of all the fielders.
    (ii) Name the quadrants to which fielders are associated.
    (iii) Which quadrants has maximum number of players.
    (iv) Which quadrants has minimum number of players.

SCIENCE

1. Which of these contain less nitrogenous waste – renal vein or the renal artery?
2. What is the role of glomerulus in kidney?
3. Differentiate inhalation and exhalation.
4. With the help of labelled diagram, discuss the mechanism of respiration in human beings.
5. Name the fluid filled between the menings of the brain. What are its functions?
6. You have touched a hot object. Represent diagrammatically the path that leads to a response, i.e. quickly pulling back the hand.
7. Heat is evolved diving (a) Endothermic Reaction (b) Displacement Reaction (c) Combustion Reaction (d) Combination Reaction
8. When you mix solutions of lead (II) nitrate and potassium iodide, (a) What is the colour of the precipitate formed? Name the compound evolved. (b) Write a balanced chemical reaction. (c) Is this a double displacement reaction?
9. Transfer the following into chemical equations and balance them. (1) Hydrogen gas combines with nitrogen to from ammonia. (2) Hydrogen sulphide gas burns in air to give water and sulphur dioxide. (3) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.
10. Write three equations for decomposition reaction where energy is supplied in the form of heat, light and electricity.
11. Bleaching powder forms a milky solution in water. Explain.
12. A first aid manual suggests that vinegar and baking soda should be used to treat wasp sting and bee stings. (a) What does this information tell you about the chemical nature of the wasp sting? (b) If there were no baking soda in the house, what other house hold substances would you use to treat stings?
13. Explain why? (a) Common salt becomes sticky during the rainy season. (b) Blue vitrol change to white upon heating.
14. (a) Why does an aqueous solution of acid conduct electricity? (b) How does the concentration of hydrogen ions $[H_3O]+$ changes when the solution of an acid is diluted with water? (c) Which has higher pH. A concentrated or dilute solution of HCL? (d) What would you observe on adding dil HCL acid to (i) Sodium bicarbonate placed in a test tube. (ii) Zinc metal in a test tube.
15. In a particular TV tube a beam of electron is emitted. The beam current is 80microA. How many electron strike the screen of TV every second. Also find the total charge striking the screen in 2 minutes.
16. We have a copper wire of resistance R. This wire is pulled so that its length is doubled. Find the new resistance of the wire in terms of its original resistance.
17. Calculate the resistance of an aluminium wire of length 60cm & cross-sectional area $1mm^2$ .The specific resistance of aluminium is 2.6×10^{-8} ohm meter.
18. A copper wire having resistance R is cut into 4 equal parts. (a) Find the resistance of each part in terms of original resistance of the wire. (b) Find the resistance of the combination if these four parts are connected in parallel.
19. A wire of resistance of 20 ohm is bent in the form of a closed circle. What is the effective resistance between the two points at the end of any diameter of the circle.
20. Number of electric lamps designed to be used on a 220- V electric supply are rated 10 W each. Calculate the number of lamps that can be connected in parallel to each other across the two wires of 220 V line if the maximum allowable current is 5A.
21. Make a PPT of chapter Electricity (minimum 10 slides).
22. Make a project on how does the electricity reach us at our home. Also mention the DISCOM that provides the electricity in different parts of your state/UT.
23. Prepare a working model to show the working of heart and lungs.
24. Prepare a case study on various nervous disorders (minimum 5 disorders).
25. Prepare a investigatory project about natural and synthetic indicators.

SOCIAL SCIENCE

HISTORY

1. Visit any Historical monument in your City and gather the detailed information about it. Collect the photograph, take interviews of the tourist (Ask them about their experience) and get the questionnaire filled by the foreigners. Compile all above information in the form of PPT.
 Note: (It is mandatory to paste or post your pictures with monuments and Foreigners while taking their Interview)
2. Make the flow Chart on Global Interconnectedness.
3. What is meant by Calligraphy?
4. On an outline map of India from chapter 3 mark and label the Congress Sessions held in India in:
    (a) Sep 1920 at Calcutta   (b) Dec 1920 at Nagpur   (c) 1929 at Lahore
5. On an outline map of India from chapter 3 mark and label the following places:
   (a) Amritsar   (b) Nagpur   (c) Champaran   (d) Chauri Chaura
   (e) Kheda   (f) Dandi   (g) Ahmedabad   (f) Madras
   (g) Poona   (h) Lucknow
6. How have Belgium and Sri Lanka dealt with the question of Power Sharing differently?
7. Why is the ethnic composition of Belgium very complex?
8. If agriculture and Commerce are subjects why do we have ministers of agriculture and
    commerce in the Union Cabinet?
9. What was the new culture of Power sharing developed after 1990s?
10. Examine the concept of three tiers government of Indian federalism.
11. Discuss the Centre-State relation in Indian federalism.
12. Mark these dam on the outline Map of India:
a)Bhakra Nangal b)Tehri c)Tilaiya d)Maithon e) Konar f)Hirakund g)Tungabhadra f) Koyna g)Sardar Sarovar h) Periyar.
13. List a few example of environmental degradation that you may have observed around you.
14. Mark the National Parks and Bio Reserves on the map of India.
15. Mark the different types of Soils on Map of India.
16. In what respect is the criterion used by the UNDP for measuring development different from the one used by the World Bank?
17. Make a poster on rain water harvesting.
18. Draw a flow chart of classification of Resources.
19. Make a Collage on the Endangered species.(This activity has to done on A3 size drawing sheet)
20.Write five Slogans on 'Saving of Water'.
21. Explain different techniques of Rain Water Harvesting along with their diagrams.
22. Name at least 5 communities along with their regions who conserve the forest and wild life.

FRENCH

1. **Faites un projet** (PROJECT WORK) en décrivant la culture, les monuments, régions, villes, civilasations, la cuisine et d'autres spécialités. Make a power point presentation in a compact disc, about France (monuments, civilization, regions, cities, gastronomy, literature etc) in French.

2. **- Préparez une affiche (chart)** sur les grandes personnalités françaises (Président : Emmanuel Macron, Écrivain : Jules vernes/ Molière)

<div align="center">Ou</div>

<div align="center">Le système éducatif en France et en Inde</div>

3. **- Écrivez une lettre** à votre ami(e) en décrivant comment vous avez passé vos vacances d'été. [on peut toujours décrire un pays ou une ville avec ses monuments, ses spécialités, sa cuisine, le système de transport et ses personnages bien connus, ce que vous aimez, et il faut utiliser le dictionnaire pour écriver].

4. **- Écrivez cinq bonnes raisons** pour apprendre la langue françaises. (Do write the appropriate reasons and explain them also).

5. **- La gestion de l'eau fluviale (river water management)**

   - Ecrivez un dialogue intéressant entre le fleuve Seine (en France) et le fleuve Ganges (Ganga en Inde).
   - Supportez votre dialogue avec des images, les photographes, etc.

   Les conseils (hints) i. Ces deux fleuves sont importants et populaires. ii. Le gouvernement dépense beaucoup d'argent pour les maintenir. iii. Les endroits touristiques, etc.

<div align="center">Ou</div>

   - **Read any one story out of these 4 stories and write "ce que vous aimez et ce que vous apprenez"**
     1. Cendrillon
     2. Le petit chaperon Rouge.
     3. Barbe Bleue
     4. Le malade imaginaire

6. **- Make the crossword in french using the hints given below** :
   1. Futur simple du verbe « pouvoir » avec JE.
   2. Participe passé du verbe «ouvrir » .
   3. participle passé du verbe « vouloir ».
   4. futur simple du verbe « avoir » avec IL.
   5. Participe passé du verbe « finir ».
   6. Futur simple du verbe «recevoir » avec Vous.
   7. Futur simple du verbe «voir » avec Vous.
   8. Participe passé du verbe «avoir » .
   9. Participe passé du verbe «partir » .
   10. Futur simple du verbe «etre » avec Vous.

7. - **Imagine what these people have just done and are going to do .Write the action just finished using passé recent and the one going to take place in futur proche.**

	Je fais mes devoirs	
	Il mange le petit dejeuner	
	Elle joue avec ses amis au parc	
	Je regarde la télé	

	Elle prepare le diner	

8- Mettez le texte au négatif :

La vie est belle, j'ai des amis et des cousins ! Mes parents sont encore là pour m'ancourager. Mon oncle est bien. Mes etudes sont intéressantes. Mes professeurs sont aimables. J'ai toujours les weekends-libres. Je suis heureux et content.

_____

_____

_____

_____

9. **- Mettez à l'interrogtaif avec inversion.**

Exemple : Julie aime chanter = julie, aime-t-elle chanter ?

1. Mon voisin a une voiture =
2. Tes parents arrivent ce soir =
3. Pierre sort vendredi =
4. La famille de dupart organise une fete =
5. Berthe et Valerie étudient ensemble =

10. **Faites des phrases, make the phrases with the frequently use adverbs.**

1. Bien
2. Mal
3. vite
4. souvent
5. Lentement

11. **Faites des phrases, make the phrases with the frequently use conjunctions.**

1. Car/ parceque (because)
2. Ensuite (next)
3. Donc (so)
4. Et (and)
5. Mais (but)

12. **Revise all the tenses till futur anterieur**.

13. **Learn Leçon 1,2&3.**

14. **Revise all the grammar topics done in class 9th**.

15. **Do read the newspaper daily,write down the french news & also news based on France (atleast 10 news and artciles/you can cut the newspaper artcile and paste in A4).**

Note : Do *all the questions with the help of french dictionnary and your french book.*

Project work should be done in CD.

For a chart you can take A-3 or a sheet that you like.

Rest all the questions, you have to download this worksheet and solve and make one file.

<u>COMMERICAL ARTS</u>

Scripting A-Z (7*4 size), 3D