BAWA – LALVANI PUBLIC SCHOOL

HOLIDAY– HOMEWORK
GRADE – IX (SESSION 2019–20)

Guidelines/General Instructions:

- Use A4 ruled sheets for all subjects.
- All subject assignments to be compiled and spiral bound.
- Concatenation to be followed: English, Mathematics, Science, Social Science, IT and Punjabi .
- Prepare Index for each subject.
- Assignment should be legible and neat.
- Assignment will be evaluated as Subject Enrichment Activity for PT-II.

Community Service:

For IAYP Programme, Make a cleanliness drive anywhere or visit any NGO and prepare a report for the same.

ENGLISH

WRITING SECTION

STORY WRITING

1. Ravi is excited as he is going to his favourite place Darjeeling. It is his life time wish to be there. Before starting the journey, he ensures that he hasn't forgotten anything. He gets into the train, settles in his seat and looks around……………….
2. Raj wishes to be a champion footballer, so what if he is poor and his parents can't get him admitted in any football academy. He will realise his dream one day but how………………..
3. A distressed king_____ his subjects lazy _____places a big stone in the middle of a road____next day merchants pass and go around it_____an officer does the same_____ a young soldier does the same
   ___everyone curses the stone blame the king and his government _____the king removes the stone_____ finds an iron box marked "For the person who moves away the stone" _____and filled with gold_____ people feel ashamed.

LETTER WRITING

1. Recently, you got an opportunity to meet some courageous girls, who, despite serious opposition from their families, continue their education. This has made you feel both proud and concern about these girls and you decide to write a letter to the Editor of a newspaper emphasizing upon the need to promote girl child education. Add up your own ideas and write the letter to the Editor.
2. A survey reveals that most of our health related problems are due to our over fascination with modern gadgets like smart phones, lap tops, television and video games. The findings of the survey compel you to share your views on the issue and you decide to write a letter to the Editor of a newspaper. On the basis of your understanding write the letter.
3. There is a 'Divyanga' (Physically Handicapped) child in your class and every day you watch him very closely. You appreciate his efforts and enthusiasm, but you find some of your classmates making fun of him regularly and you try to make them realise their insensitivity but they don't change their ways and means. This has provoked you to write

a letter to the Editor of a newspaper expressing your views on the need to be respectful to every individual including the specially abled ones.

GRAMMAR SECTION

GAP FILLING

1. Stress may actually be the eating trigger that (a)………………….. the most trouble. Many of us have high levels of chronic stress, whether (b)…………………… from the workload, relationship troubles or long to-do lists. Our bodies respond to this stress the way our ancestors' bodies did, triggering "fight or flight" chemicals in the brain that (c) …………… to calorie accumulation and fat storage. But the difference is that we have plenty of food at our disposal; they didn't. So, we end up continually upgrading the size of our storage unit.

(a) (i) caused   (ii) will cause   (iii) causes   (iv) causing
(b)(i) it's   (ii) its   (iii) it   (iv) that
(c) (i) leading   (ii) lead   (iii) leads   (iv) led

2. Reading is one of the best hobbies ….a…. (this / that / who / it) you can adopt. …..b…. (It / They / Them / Its) not only helps you to pass your leisure time usefully …..c…… (and / so / hence / but) also keeps you well informed. Besides that, it builds ……d…… (yours / your's / your / its) vocabulary and helps you to …..e…… (improvement / improving / improves / improve) your expression. If you can't decide ……f…… (whose / which / different / various) books to read, you should consult your parents or librarian.

3. An inadequate public transport system has ………1…….. to an increase ……….2………… the number of vehicles ……….3……… the roads. Chocked roads have added ………4………. the traffic woes of commuters. Traffic problems need to ………..5………… because valuable time and energy ……..6……….. in traffic jams. Increase in traffic ……………7……….. also led to an increase in the number of accidents. Extended travel times and unpredictable traffic jams ……8……… people mad. It is not surprising that cases of road rage …….9….. the rise. ……10…… eliminate this problem roads need to …….11…….. In addition to this, the government should provide safe, ……….12……. and efficient public transport systems to discourage the use of private vehicles.

1. a) lead; b) led; c) leads; d) been leading
2. a) on; b) in; c) with d) into
3. a) on; b) in; c) across; d) at
4. a) in; b) with; c) to; d) for
5. a) solve; b) be solving; c) be solved; d) solved
6. a) is wasting; b) is wasted; c) wasted; d) has wasted
7. a) has; b) have; c) is; d) was
8. a) make; b) drive; c) go; d) turn
9. a) is; b) has; c) are; d) were
10. a) order to; b) in order to; c) to order; d) in order
11. a) broaden; b) be broadened; c) broadened; d) being broadened
12. a) more stable; b) stable; c) stabler; d) stablest

SENTENCE REODERING

1. of mankind / the habit / reading is / one of / resources / of / the greatest /
2. are / we enjoy / that / belong to us / than if / much more / they / borrowed / reading books /
3. book / formality / a certain considerate / must be treated / with / a borrowed /
4. no book / that / afraid to / you should / mark up / own / you are /
5. should begin / everyone / a private library / youth / collecting / in /
6. converse with / in / you / at any moment / a private library/ Socrates or Shakespeare / can /
7. the hand / your library / should be / as well as / free / accessible / to / to the eye / and /
8. one of / that of reading / known to / is / greatest / the / pleasures / man
9. a rich variety / adventure and wisdom / the / world of books / has / of /
10. own / you / book / convenience / can enjoy / a / at your /

SCIENCE

Prepare a working model on a given theme according to assigned roll number. Please write a report based on it. Click the photograph of your model and keep the photograph in your file. The themes are as follows:

Sno	Theme	Adorables Roll No	Blossoms Roll No	Commendables Roll No	Dazzlers Roll No
1.	Industry	1-6	1-6	1-6	1-6
2.	Health and Hygiene	7-12	7-12	7-12	7-12
3.	Conservation of Natural Resources	13-18	13-18	13-18	13-18
4.	Physical Science	19-24	19-24	19-24	19-24
5.	Biochemistry	25-29	25-28	25-29	25-28

Note : Each student will make individual project.

SOCIAL SCIENCE

Prepare a documentary report on Russian Revolution and cover the following aspects:
- ➢ Features of Russian Revolution
- ➢ Impact of Russian Revolution
- ➢ Causes responsible for Russian Revolution
- ➢ Major incidents occurred during that time.

IT

- ❖ Create a PPT on successful stories on 6 successful Indian entrepreneur (10-15) slides with soft copy (CD) and hard copy (Coloured printing).
- ❖ Prepare a report on green skills development program in India in Ms word (3)pages with hard copy (black and white).

MATHEMATICS

1) Express 18.4848……in the form $\frac{P}{q}$,where p and q are integers and q not equal to zero.

2) Represent $\sqrt{17}$ on number line.

3) Simplify $\frac{6-4\sqrt{3}}{6+4\sqrt{3}}$ by rationalizing the denominator.

4) Simplify $\sqrt{72} + \sqrt{800} + \sqrt{18}$

5) If $x = 2 + \sqrt{3}$, find the value of $x^3 + \frac{1}{X^3}$

6) If $p = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $q = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ then find p^2 and q^2.

7) Without finding cubes factorise $(x - 2y)^3 + (2y - 3z)^3 + (3z-x)^3$

8) Plot the pointsA (0,4) B (-3,0) C (0,-4) D (3,0).Name the figure obtained by joining ABCD.Also name the quadrants in which sides AB and AD lies.

9) The measure of an angle is twice the measure of its supplementary angle. Find its measure.

10) Prove that sum of three angles of the triangle is 180º

11) An exterior angle of a triangle is 110º and its two interior angles are equal. What will be the measurement of each of these angles.

12) A right angled isosceles triangle ABC is right angled at A. Find the value of angle B.

13) Let ABC be an equilateral triangle in which co – ordinates of B and C are (5,0) and (-5,0)respectively. Find the co –ordinates of the point A.

14) In which quadrant will the point lie,if
   a) The ordinate is 2 and the abscissa is -3
   b) The abscissa is -4 and the ordinate is -2
   c) The ordinate is 3 and the abscissa is -2

15) If (x + 1) and (x +2) are the factors of $x^3 + 3x^2 - 3\alpha x +\beta$, then find α and β.
16) In the given figure (a),if AC = BD, then prove that AB = CD and state Euclid's axiom used in solving it.
17) If two lines intersect each other then show that vertically opposite angles are equal.
18) If a point C lies between two points A and B such that is it is the midpoint of line segment AB, prove that every line segment has one and only one midpoint.
19) Solve the equation x + 4 = 10 and state Euclid's axiom used.
20) If A,B and C are three points on the line, and B lies between A and C, then prove that AB + BC =AC.
21) Find the measure of the angle which is compliment of itself.
22) An angle is equal to the five times of its supplement. Find the measure of the angle.
23) Two supplementary angles differ by 34°. Find the angles.
24) If the angles of the triangle are in the ratio 5 : 3 : 7, then what will be the nature of the triangle.
25) State Euclid's fifth axiom and fifth postulate.
26) $\sqrt[3]{343} + \sqrt[4]{81} - \sqrt{136} + 4\sqrt{18}$
27) Find two rational and irrational numbers between $\sqrt{2}$ and $\sqrt{3}$.
28) Draw the following on number line.
   a)$\sqrt{10}$ b)$\sqrt{17}$ c)$\sqrt{17}$
29) Do the following activities in the maths lab manual ACTIVITY no. 2,3,5,6,8,9,10,11
30) Prepare a report on why mathematics is essential in our life.

HINDI

प्र-1   माता-पिता के आदर को लेकर शिक्षक और विद्यार्थी के बीच हुआ संवाद 50 शब्दों में लिखिए।

प्र-2   किसी मोबाइल फोन या स्मार्ट फोन से संबंधित विज्ञापन 25-30 शब्दों में तैयार कीजिए।

प्र-3   दिए गए चित्र को देखकर 20-30 शब्दों में इसका वर्णन कीजिए।

प्र-4   'नैतिकता का गिरता स्तर' विषय पर 80 से 100 शब्दों में अनुच्छेद लिखिए।

(i)ਲੇਖ ਰਚਨਾ – 550 ਸਾਲ ਗੁਰੂ ਨਾਨਕ ਦੇ ਨਾਲ।

(ii) ਪੱਤਰ ਰਚਨਾ– ਕਿਸੇ ਪੰਜਾਬੀ ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਮਹਾਂਨਗਰਾਂ ਵਿੱਚ ਆਵਾਜਾਈ ਦੀ ਸਮੱਸਿਆ ਬਾਰੇ ਦੱਸ ਕੇ ਇਸ ਸਮੱਸਿਆ ਨੂੰ ਦੂਰ ਕਰਨ ਲਈ ਸੁਝਾਅ ਦਿੰਦੇ ਹੋਏ ਇੱਕ ਪੱਤਰ ਲਿਖੋ।

(iii) ਤੁਸੀਂ ਗਰਮੀਆਂ ਦੀਆਂ ਛੁੱਟੀਆਂ ਕਿਵੇਂ ਬਿਤਾਈਆਂ ਵਿਸ਼ੇ ਉੱਤੇ ਆਪਣੇ ਵਿਚਾਰਾਂ ਦੀ ਪੇਸ਼ਕਾਰੀ 150–200 ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਰੋ।

(iv) ਵਿਸਮਿਕ ਦੀ ਪਰਿਭਾਸ਼ਾ ਦੱਸਦੇ ਹੋਏ ਉਸ ਦੀਆਂ ਕਿਸਮਾਂ ਦਾ ਇੱਕ ਛੋਟਾ ਚਾਰਟ ਵੀ ਤਿਆਰ ਕਰੋ।

(v) ਹੇਠ ਲਿਖੇ ਚਿੱਤਰ ਨੂੰ ਵੇਖ ਕੇ ਚਿੱਤਰ ਵਰਨਣ ਕਰੋ।