| Name: _____ | Std: X   Div: _____ | Roll No:___ |
| Marks:100 | Date: 25/09/2018 | Time: 3hrs |

Section I: Language Study

Q1.A1   Do as directed: **(8)**

1. Write the Past Participle of: **sting**.
2. My friend was young but _____ (quiet/ quite) efficient and firm.(Choose the correct word from the bracket)
3. croinbttiuno, sisasetd. (Rearrange the letters in words and rewrite the word)
4. why didnt you tell me (Punctuate the sentence)
5. Bigger its quantity, less it weighs..(Insert articles wherever necessary and rewrite the sentence)
6. The people in the crowd found this claim interesting. (Divide the sentence into Subject and Predicate)
7.Walking is a great exercise.(State whether the underline word is Present Participle or Gerund)
8. It has been raining since this morning. (Pick out the verb and state its tense)

A2.Do as directed: **(8)**

1. We should respect our National Flag. (Rewrite the sentence into Passive Voice)
2.I asked,"What are you going to do with the papers, Grandpa?"(Change to Indirect Speech)
3. Children ………(Obligation)respect their elders. (Fill in the blanks with correct Modal Auxiliary)
4. We saw an army of ants lugging a fly which was at least ten times the ants size.(Identify the clauses and state its kind)

Q1.B   Do as directed: **(4)**

1. The Hermit was frail. (Change the Assertive sentence to Exclamatory and rewrite.)
2. Shakespeare is greater than all other dramatists.(Change to Superlative degree)

Section II: Textual Passages
(Reading Skills, Grammar and Vocabulary)

Q2A. Read the following passage and do the activities: **(10)**

A1   Complete the following: **(2)**
  i)   The writer told Einstein that he liked anything by ………………………
  ii)   Einstein played something little more advanced by …………………. The Trumpeter.

I told him I like anything by Bing Crosby. At once, I could hear Bing Crosby's voice filling the room.
"Now, can you please tell me what you just heard?", he said.
The simplest answer seemed to be to sing the lines. So I sang it back to him.
He smiled. "You're not tone-deaf," he said.
I told him this was one of my favourite songs, something I had heard hundreds of times, so it didn't really prove anything.
"Nonsense!" said Einstein. "It proves everything! Do you remember your first arithmetic lesson in school? Suppose, at your very first contact with numbers, your teacher had ordered you to work out a problem in, say, long division or fractions. Could you have done it?"
"No, of course not."
"Exactly! It's like learning maths. You have to learn addition and subtraction in order to do multiplication and division. Now I'm playing something a little more advanced."
It was John McCormack singing The Trumpeter. "Sing that back", he ordered.
And we went on from level to higher level until he was playing just music without words.

A2.   Complete the Table: **(2)**

| Statement | Who said | To Whom | Effect on the listener |
| "You're not tone-deaf" | -------------------- | --------------------- | ----------------------------- |

 A3   Find words from the passage which mean :   **(2)**
     i) make progress ii)one or more calculations involving numerical operations

A4i)   It proves everything. (Add a Question Tag)   **(1)**
  ii)   We went on from level to higher level until he was playing just music without words
      (Pick out the Prepositions)   **(1)**

A5.   Do you think the comparison between music and arithmetic was a good one? Give reason your answer.   **(2)**

Q2. B Read the following passage and do the activities: (10)

B1 Answer in one word or a phrase: **(2)**
  i) What should we not be trapped by?
  ii)   Name the amazing publication mentioned in the passage.

About a year ago I was diagnosed with cancer. My doctor advised me to go home and get my affairs in order, which is doctor's code for 'prepare to die'. I lived with that diagnosis all day. Later that evening I had a biopsy. It turned out to be a very rare form of pancreatic cancer that is curable with surgery. I had the surgery and I'm fine now.
This was the closest I've been to facing death, and I hope it's the closest I get for a few more decades. Having lived through it, I can now say this to you: your time is limited, so don't waste it living someone else's life.
Don't be trapped by dogma- which is living with the results of other people's thinking. Don't let the noise of other's opinions drown out your own inner voice.
And most important, have the courage to follow your heart and intuition. They somehow already know what you truly want to become.

When I was young, there was an amazing publication called *The Whole Earth Catalogue.* In the final issue, on the back cover they put a photograph of an early morning country road. Beneath it were the words: Stay Hungry, Stay Foolish. It was their farewell message as they signed off. I have always wished that for myself. And now, as you graduate to begin anew, I wish that for you. Stay Hungry, Stay Foolish.

B2.State whether the following statements are true or false: **(2)**
   i)   The doctor advised me to go home and get my affairs in order.
   ii)   Our time is limited, so waste it living someone else's life.
   iii)   We should not let the noise of other's opinions drown out your own inner voice.
   iv)   We must have the courage to follow our heart and intuition.
 B3i)   Give the noun forms of – a) hungry -   b) equal -   **(1)**
   ii)   From the extract pick out the opposites of: a) sensible   b) common   **(1)**
B4i)   <u>About a year ago</u> I was diagnosed with cancer.(Frame 'Wh' question to get the underlined part as answer) **(1)**
   ii)   My doctor advised me .(Name the Tense of the Verb and change to Future Continuous Tense)   **(1)**
B5.   What message do you get from this passage?   **(2)**

Section III: Poetry

Q3 A. Read the extract and do the following activities: **(5)**
A1   Complete the following web: **(2)**

F_____		T_____
	Qualities that the poet prays for his countrymen	
S_____		P_____
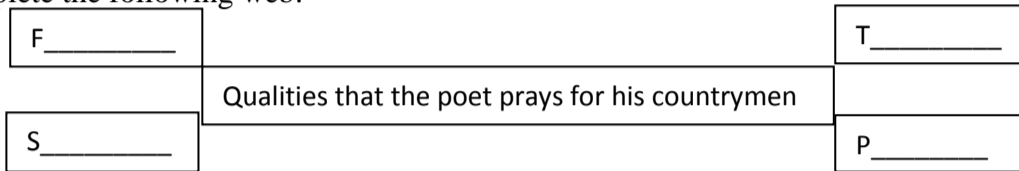
> Where the mind is without fear and head is held high
> Where knowledge is free
> Where the world has not been broken up into fragments
> By narrow domestic walls
> Where words come out from the depth of truth
> Where tireless striving stretches its arms towards perfection
> Where the clear stream of reason has not lost its way
> Into the dreary desert sand of dead habit
> Where the mind is led forward by Thee
> Into ever-widening thought and action
> Into that heaven of freedom, my Father, let my country awake.

 A2i)   What 'reason' and 'dead habit' are compared to?   **(1)**
   ii)   What is the rhyme scheme of the extract?   **(1)**
 A3   Name and explain the Figure of Speech: **(1)**
            Where tireless striving stretches its arms towards perfection
Q3B   **Read the following poem and write an appreciation of it with the help of the given points**
           in paragraph format.   **(10)**

> When God at first made Man,
> Having a glass of blessings standing by;
> Let us (said He) "pour on him all we can:"
> Let the world's riches, which dispersed lie,
> Contract into span.
>
> So strength first made a way;
> Then beauty flow'd, then wisdom, honour, pleasure:
> When almost all was out, God made a stay,
> Perceiving that alone of all His treasures
> Rest in the bottom lay.
>
> For if I should (said He)
> Bestow this jewel also on my creature,
> He would adore my gifts instead of me,
> And rest in Nature, not the God of Nature.
> So both should losers be.
>
> Yet let him keep the rest,
> But keep them with repining restlessness:
> Let him be rich and weary, that at last,
> If goodness lead him not, yet weariness
> May toss him to my breast.

You may use the following points while appreciating the given poem.
*Title * Poet * Central Idea * Rhyme Scheme *Any two favourite lines * Theme * Figures of Speech* Tone of the poem * Why you like the poem.

Q4. A. Read the passage and do the activities: (10)

A1.Arrange the following sentences in the chronological order as they appear in the passage: (2)

    i)   The villager has traditionally been a believer in philosophy of 'karma' or fate.

    ii)   The rate of change is sluggish.

    iii) His attitude, in many respects, is: 'home made is best'.

    iv) Antiquated attitudes, value systems and outlooks are changing.

The villager has customarily been very conservative in his attitude and approach. He is reluctant to change his traditional way of thinking and doing things. His attitude, in many respects, is: 'home made is best'. For instance, most cattle farmers in the villages prefer to feed their cows and buffaloes with a home-mix comprising of local oil-cakes like mustard or cottonseed, pulses, jiggery, salt, etc. it takes numerous visits, hard-convincing, daily trials and experiments to convince the rural cattle farmer that compound feeds, scientifically formulated, improve the yields of milk without any incremental costs.

The age old values and attitudes towards caste, creed, women, time and money take time to change. The villager has traditionally been a believer in philosophy of 'karma' or fate. He has found more convenient to blame his economic destitution and poor living conditions. The security that the villagers find in the 'status quo', acts as a disincentive to change and experiment in the short run. Many of these antiquated attitudes, value systems and outlooks are changing due to improved levels of awareness and education. However, the rate of change is sluggish. Attitudes that have fossilized over the centuries do take time to change.

A2. Match the column: (2)

A	B
1. The villager was customarily very conservative	i). a believer in philosophy of 'karma' or fate.
2. Most cattle farmers in the villages	ii) take time to change.
3. The villager has traditionally	iii) in his attitude and approach
4. Attitudes that have fossilized over the centuries	iv) prefer to feed their cows and buffaloes with a home-mix

A3.   **Select the correct adjective forms from the bracket:** (2)

    (improved, sluggish, economics, sluggishly, convenience, economic, improvise, convenient,)

    i) slug   -------- ii) improve -------- iii) economy ------- iv) conveniently ---------

A4i)   He has found more convenient to blame his economic destitution.

    (Pick out the verbs and state whether Finite or Infinitives) (1)

   ii)   He is reluctant to change his traditional way of thinking .

    (Name the Parts of Speech of the underlined words.) (1)

A5.   How do you think we can bring about rapid change in Indian villages? (2)

Q4B.   **Read the following passage and write a summary/précis writing:(Write a title and use appropriate language)** (5)

    Bern Bronson, 30 loved animals. Raised on a family owned zoo, he had grown up caring for antelope, deer and wildcats. He was fiercely, at times stubbornly, protective. Once, when a tiger cub was born with a deformed leg, the local veterinarian and Bret's parents believed the animal would never live a full life. Even so, the boy bottle-fed the cub and cared for it. Despite Bret's 'mothering', the cub died, but Bret's nurturing instinct lived on.

    In college he studied animal science, and afterwards he worked at a safari park where, in 1980, he trained his first African elephant and found his true calling. From the beginning, Bronson was awed by elephants. They have the brute force to uproot trees and can outturn the fastest human sprinter. But they also have delicate fine- motor skills. The same trunk that could hoist the front end of an automobile or fracture a predator's skull could gently pluck a peanut from the fingers of a small child. He'd also learned to respect their extraordinary intelligence.

    Every elephant has distinct personality and can express a wide range of emotions through sounds and eye and body movements., Bronson had even heard that elephants could cry. The magnificent beasts kept him endlessly fascinated.

Section V: Writing Skill

Q5A.   **Letter writing:** (5)

  A   **Write a letter of application in response to the advertisement in The Mid Day which follows:**

> ABC Pvt. Ltd. requires efficient computer operator with knowledge of accounts and excellent communication skills. Send your application to: The Advertiser, P.O. Box No: 111, The Mid Day, Mumbai -400001.

**Q5B.**   **Dialogue writing / Interview questions:** (5)

    Imagine that you are selected to interview a famous personality 'Kailash Satyarthi.' Write 8 to 10 questions that you would ask him at the interview.

Q6 A. **Information transfer: Verbal to Non- Verbal / Non-Verbal to Verbal** **(5)**

Read the following information and draw a web diagram.

Thoughts and feelings are a part of our being. We go through a series of thoughts and feelings which are pleasant and exciting. Some feelings are serene and dignified. There are other thoughts and feelings which are spontaneous and rewarding… some anxious feelings too are experienced by us. Some feelings can be intimate while others can stem from the concern and care we have for others. It all depends on the state of mind we are… after all aren't our lives enriched due to these very thoughts and feelings.
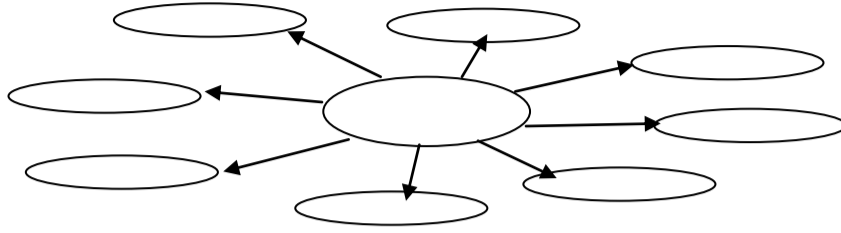
Q6B. **View/ Counterview / Speech** **(5)**

Write a speech to be delivered on the occasion of Labour Day on the topic 'Dignity of Labour.'

Section VI: Creative Writing

Q7A1. **Expansion of idea / Report writing (Any one)** **(5)**
1. An idle mind is a devil's workshop.
2. Slow and steady wins the race.

Q7B. **Developing a story:** **(5)**
Develop a story to narrate to your friends in order to convince them that Laziness never pays. Give a suitable Title.

***** **ALL THE BEST******

Thakur Educational Trust's (Regd.)
THAKUR   VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE
I TERMINAL EXAMINATION 2018- 2019
Subject: Geography.

Name: _____ STD: IX Div: _____   Roll No: _____
Marks: 40   Date: 28/09/2018   Time:2 hrs

QI) A. Tick in front of the correct option: -   **(4)**
   1. What type of slope is indicated by the contours that are far away from one another?
     Gentle ☐   Steep ☐   Uniform ☐
   2. Which of the following type of landform is the continent?
     Primary ☐   Secondary ☐   Tertiary ☐
   3. Which of the following economies aims to earn maximum profit?
     Socialist ☐   Capitalist ☐   Mixed ☐
   4. India is the member of this trade organization.
     SAARC ☐   BRICS ☐   EU ☐

B. Match the correct pairs.   **(4)**

Column 'A'	Column 'B'
1. Field visit	a. visible trade
2. Block disintegration	b. father of economics
3. Adam Smith	c. internal processes
4. Trade of goods	d. report writing
	e. Invisible trade

QII) Answer in one sentence each: -   **(4)**
1. What is an isoline?
2. What is meant by weathering?
3. To which economic factor is the management of individual or family finance related ?
4. Why was the use of currency in trade started?

QIII.A) Define the following concept.   **(6)**
   1. Distributional maps
  B) Identify the types of weathering from the given description:
   1. Some animals live inside the grounds by making burrows.
   2. The rock rusts.
  C) Prepare a flowchart showing the types of trade.
QIVA)Answer the following questions on the basis of the map given.   **(3)**

1. Name the Talukas with population density less than 200.

2. Which method has been used in preparing the map?

3. Name the Talukas with population density more than 400.

B) Mark the following in the outline map of world.Give index. **(3)**

1. Mt.Kilimanjaro   2.Mt.Fuji   3.Mt.Vesuvius

C) Draw a neat labelled diagram of the following. **(2)**

1. Block mountain.

QV) Give geographical reasons for the following (any two) **(6)**

1. Building collapsed at the foothills of the Himalayas because of an earthquake. Before collapsing they were moving forward and backward.

2. Change in temperature leads to mechanical weathering.

3. India has mixed economy.

QVI) Answer in brief: (any two) **(8)**

1. Explain the types of volcanoes on the basis of types of eruption with examples.

2. What are the main types of chemical weathering?

3. Write description of economics given by Lionel Robbins.

***** ALL THE BEST*****

Thakur Educational Trust's (Regd.)

THAKUR VIDYA MANDIR HIGH SCHOOL &JR.COLLEGE

I TERMINAL EXAMINATION. 2018- 2019

Subject: History/ Civics.

Name: _____ STD:IX Div: _____ Roll No: _____

Marks: 60   Date:01/10/2018   Time: 2hrs. 15mins

HISTORY

Q1. A. Fill in the blanks in the given statements choosing the correct alternative from the brackets.   (4)

1. The changes in the economic policy of India after 1991 are described as _____. (socialism, globalization, modernization)
2. _____ served the common people during 1959 famine in Mizoram. (Laldenga, Prafullakumar Mohanto, Shankarrao Chavan)
3. India adopted _____ model after independence. (communist, socialist, mixed economic)
4. The educational institution IIT is famous for the education in the area of _____. (Agriculture, medicine, engineering)

Q1. B. Identify the wrong pair, correct it and rewrite.   (4)

a. 1. Tamil minority in Sri Lanka- Rajiv Gandhi
　　2. Movement in East Pakistan- Shaikh Mujibur Rehman
　　3. Tashkent agreement- Lal Bahadur Shastri
　　4. Sent army to Golden Temple- Shri Morarji Desai

b. 1. M.S. Swaminathan- Green Revolution
　　2. Dr. Verghese Kurien- White Revolution
　　3. Lal Bahadur Shastri- 20 point programme
　　4. Rajiv Gandhi- Development in Science and Technology

c. 1. KawasjiDawar- Iron and steel factory
　　2. Dr. Datta Samant- Leadership of mill workers
　　3. N.M. Lokhande- Holiday for mill workers
　　4. Narayan Surve- Depiction of lives of workers through poems

d. 1. J. P. Naik- Work of Kothari Commission
　　2. R. H. Dave- Minimum levels of learning
　　3. P. Parthsarthy- Open University
　　4. Eknath Chitnis- Distant education

Q2. A. Complete the concept map. (any 2)   (4)

1)   2)

Benefits of Globalisation

Naxal affected states

3)

Four Prime Ministers of India
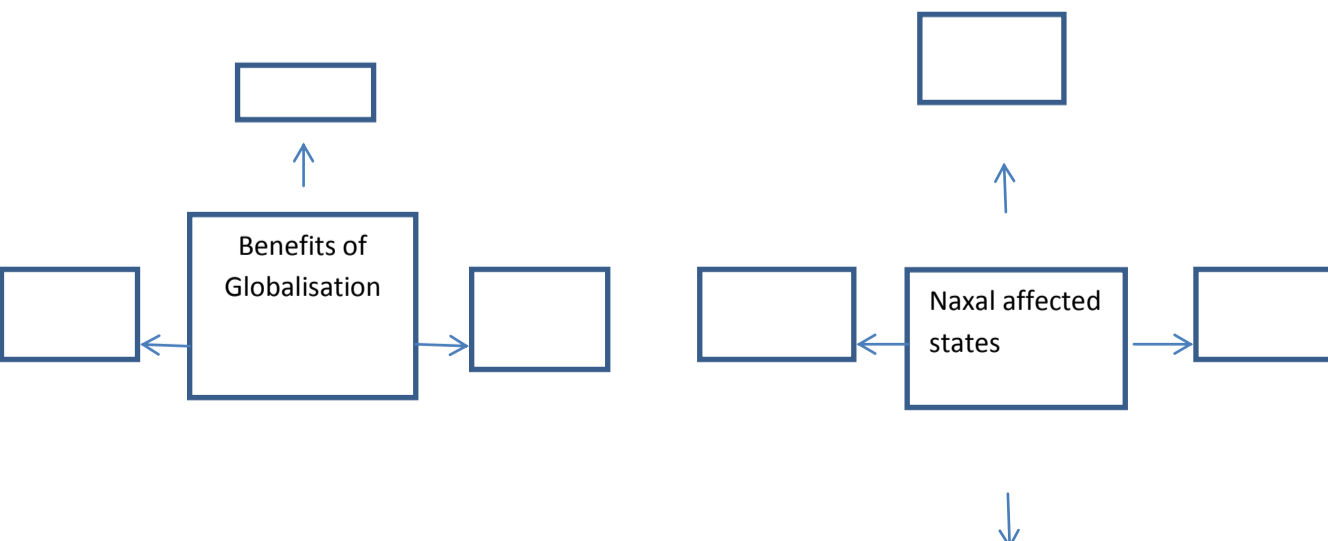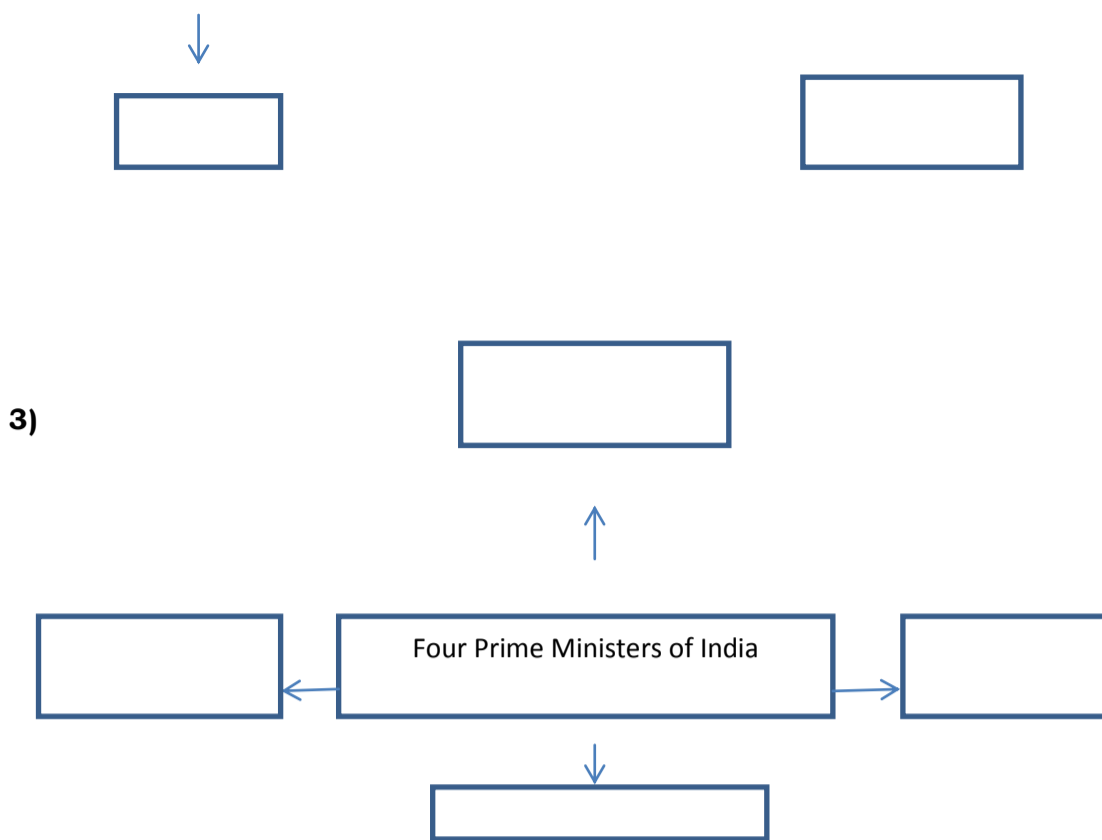
Q2. B. Write Short Notes/ Explain the concept. (any 2)   **(4)**

1. Mass media and professional opportunities.
2. Globalisation.
3. Bhabha Atomic Research Centre.

Q3. A. Explain the statements with reasons. (any 2)   **(6)**

1. The government of Shri Morarji Desai did not last long.
2. Television is the most popular medium of mass media .
3. Banks were nationalized in 1969.
4. The farmers have benefitted by Indian Agricultural Research Institute.
5. We should fight communalism with all our strength.

Q3. B. Answer the following in brief. (any 2)   **(6)**

1. Explain the objectives of newspapers.
2. Write about 'Balbharati'.
3. Explain the three sectors of India's Mixed Economy.

Q4. Read the passage and answer the questions based on it   **(4)**

The Art Department was established in 1965 in Maharashtra. It was established to frame the policy for Art Education and for its implementation by institutes of art. This Department undertook the responsibility of organizing the drawing grade examinations at school level.

1. When was the Art Department established ?**(1)**
2. Which responsibility did the department take ?**(1)**
3. Why do you think this step of establishing the Art Department was established ?**(2)**

Q5. Answer the following in detail. (any 2)   **(8)**

1. Explain 20 point programme.
2. Indira Gandhi National Open University (IGNOU).
3. Explain Operation Blue Star.

POLITICAL SCIENCE

Q6. Fill in the blanks in the given statements choosing the correct alternative from the brackets: **(4)**

1. The non-aligned movement was started in _____. (1960, 1961, 1965)
2. India conducted nuclear tests in 1974 at _____. (Shriharikota, Pokharan, Thumba)
3. _____ dropped nuclear bombs on two cities of Japan – Hiroshima and Nagasaki. (America, Russia, Italy)
4. The Communist revolution took place in _____. (Russia, China, Cuba)

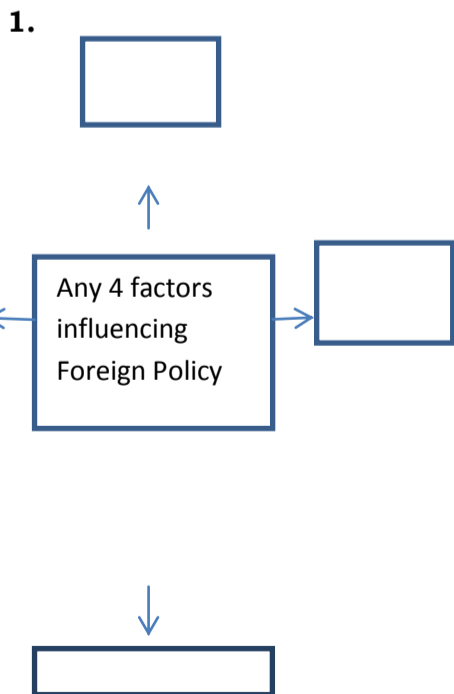**Q7.Explain with reasons whether the statements are true or false.** **(any 2) (4)**

1. The League of Nations was established after the first Cold war.
2. Pandit Nehru contributed towards improving sino- Indian relations.
3. The world became unipolar due cold war.
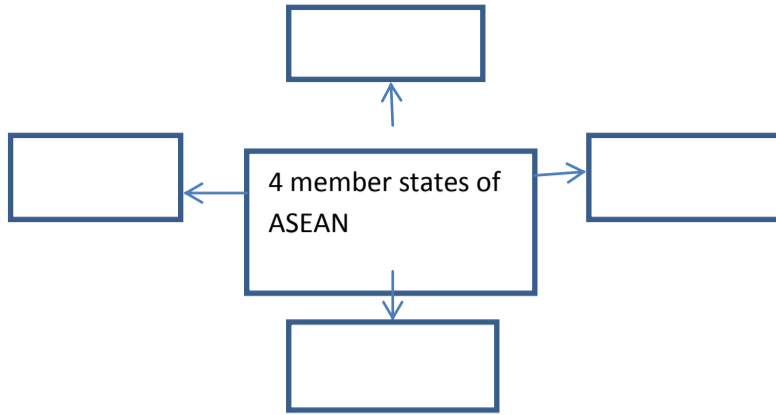
Q8. A. Explain the concept. (any 2) **(4)**

1. Cold War.
2. India's Foreign Policy.
3. Bipolarisation.

Q8. B. Do as directed/ instructed.

 Complete the following concept maps. (any 2) **(4)**

1.

2.

Any 4 factors influencing Foreign Policy

Allied powers of the First World War any 4

3.

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                    │              │
                    └──────────────┘
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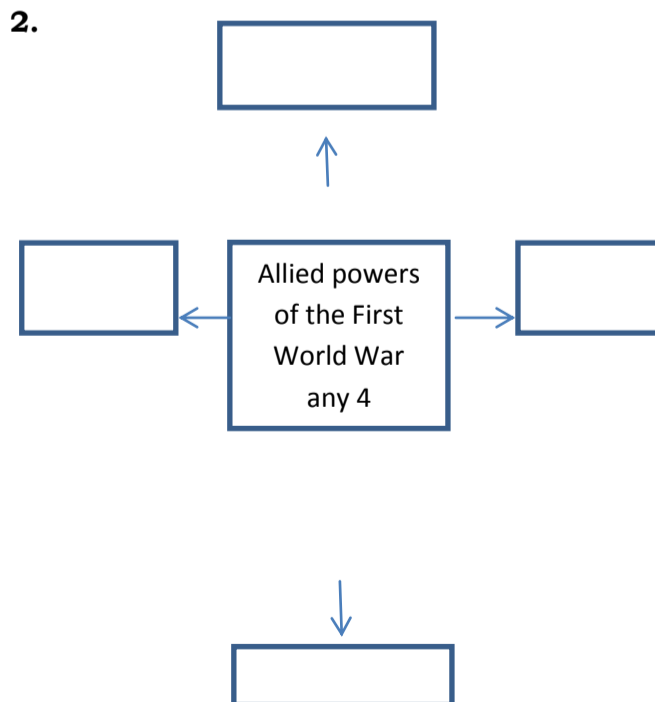
Q9. Answer the following in brief. (any 2)   **(4)**

1. What is Disarmament ?
2. Write about the Second World War.
3. Explain National Interest.
4. Explain world peace.

BEST OF LUCK

Q I A) Solve any four of the five questions. (1 mark each)   **(4)**

1. If A= {1,2,4,6,8,11,13} , B= {3,4,7,11,13}
   Find A ∩ B
2. Simplify $\sqrt{112}$
3. Find the value of |4 – 9|
4. Write the degree of the polynomial m^3n^7- $3m^5n$+mn
5. Write the index form of the polynomial using variable x from its coefficient form.
   (3, -2, 0, 7, 18)

Q I B) Solve any two of the three questions. (2 marks each)   **(4)**

1. If n(A)= 7, n(B)= 13, n(A ∩ B)= 4, then n(A ∪ B)=?
2. Rationalize the denominator $\dfrac{6}{9\sqrt{3}}$
3. Subtract the second polynomial from the first: x^2-9x+$\sqrt{3}$; -19x+$\sqrt{3}$ +$7x^2$

Q II A) Solve the following MCQ questions.   **(4)**

1. M ∪ N= {1,2,3,4,5,6} and M= {1,2,4}
   Which of the following represent N?
   a){1,2,3}   b){3,5,6}   c){2,5,6}   d){4,5,6}
2. Which of the following is a rational number?
   a) $\sqrt{7}$ b) $\sqrt{25}$ c) $\sqrt{\dfrac{25}{5}}$ d) $\sqrt{\dfrac{7}{2}}$
3. What is the degree of the 0 polynomial?
   a) 0 b) 1 c) undefined d) any real number
4. When x=-1, what is the value of polynomial $2x^3$+2x?
   a) 4 b) 2 c) -2 d) -4

Q II B) Solve any two of the three questions.   **(4)**

1. Decide whether Set A and B are equal sets. Give reasons for your answer.
   A= {even prime numbers}
   B= {x/7x-1=13}
2. Write $\dfrac{3}{4}\sqrt{8}$ in the simplest form.
3. For x=0, find the value of x^2-5x+5

Q III A) Solve any two of the three questions. (2 marks each)   **(4)**

1. If n(A)=15, n(A ∪ B)=29, n(A ∩ B)=7, then n(B)=?
2. Multiply $\sqrt{3}(\sqrt{7} - \sqrt{3})$
3. Factorise: $3x^2$-2x-8

Q III B) Solve any two of the three questions. (2 marks each)   **(4)**

1. If the value of the polynomial m^3+2m+a is 12 for m=2, then find the value of a.
2. Write $3.\overline{17}$ in $\dfrac{p}{q}$ form.
3. Find the factors of $\sqrt{3}x^2$+ 4x+ $\sqrt{3}$

Q IV) Solve any three of the four questions.   **(9)**

1. 70 trees were planted by Parth and 90 trees were planted by Pradnya on the occasion of Tree Plantation Week. Out of these, 25 trees were planted by both of them together. How many trees were planted by Parth or Pradnya?
2. Simplify: $7\sqrt{48} - \sqrt{27} - \sqrt{3}$
3. Divide polynomial $x^4+2x^3+3x^2+4x+5$ by $x+2$ using synthetic division method and write the quotient and remainder.
4. If $p(m) = m^3+2m^2-m+10$, then $p(a) + p(-a)= $?

Q V) Solve any one of the two questions.   **(4)**

1. Simplify by rationalizing the denominator.

   $$\frac{1}{(3+\sqrt{5})^2} + \frac{1}{(3-\sqrt{5})^2}$$

2. If $x - 2$ and $x - \frac{1}{2}$ both are the factors of the polynomial $nx^2 - 5x + m$, then show that $m = n = 2$

Q VI) Solve any one of the two questions.   **(3)**

1. Factorise: $(x^2-x)^2 - 8(x^2-x) +12$
2. Simplify: $2\sqrt{48} - \sqrt{75} - \frac{1}{\sqrt{3}}$

ALL THE BEST

Thakur Educational Trust's (Regd.)
THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE
I TERMINAL EXAMINATION 2018 - 2019
Subject: Geometry
Name: _____ STD: IX Div: _____ Roll No: _____
Marks: 40   Date: 03/10/2018   Time: 2hrs.

QIA) Solve any four out of five- [4]

1. Write the antecedent in the following statement-

   The diagonals of a rectangle are congruent.

2. State interior angle test.

3. In ΔPQR, ∠P=70°, ∠ Q=65°. Find ∠R

4. In ΔABC, side AB congruent to side AC and ∠ABC=70° then find ∠ACB

5. Point M is the midpoint of seg AB. If AB=8 then find the length of AM.

QIB) Solve any two out of three- [4]

1. If X-Y-Z and d(X,Y) = 17; d(Y,Z) = 8; find d(X,Z).

2. In figure y=108° and x=72°. Are the lines m and n parallel? Justify.

3. Construct a tangent to a circle with centre P and radius

   3.2cm at any point M on it.
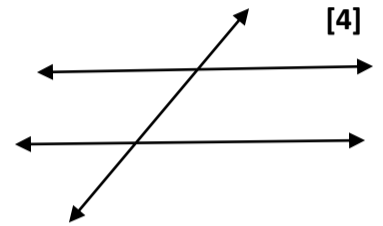
QIIA) Choose the correct alternative from the answers of the questions given below. [4]

1. If d(A,B)=7, d(B,C)=3, d(A,C)=4, then which of the options is true?

A) A-C-B   B) A-B-C   C) C-A-B   D) None of these

2. The number of angles formed by a transversal of two lines is _____

A) 2   B) 4   C) 8   D) 16

3. In ΔABC, ∠A = 60°, ∠B = 90°, ∠C = 30° and AC=12. Find AB.

A) 6   B) 24   C) 6√3   D) None of these

4. In ΔPQR, ∠Q = 90°, PR= 6 and QS is median. Find length of seg QS.

A) 3   B) 1.5   C) 6   D) 12

QIIB) Solve any two out of three- [4]

1. Write the following statement in conditional form-

   A number having only two divisors is called a prime number.

2. Two parallel lines are intersected by a transversal. If measure of one of the interior angles is 75°

   then find the measure of other angle.

3. In ΔPQR, PQ=10cm QR=12cm and PR=8cm. Find out the greatest and the smallest angle of the triangle.

QIIIA) Solve any two out of three- [4]
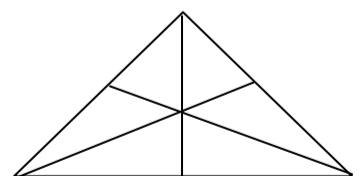
1. On a number line, points A,B and C are such that d(A,B)=5 ; d(B,C)=11 and d(A,C)=6 .Which

   of the points is between the other two?

2. Prove that, if a line is perpendicular to one of the two parallel lines, then

   it is perpendicular to the other line also.

3. In figure, point G is the point of concurrence of the medians of ΔPQR.

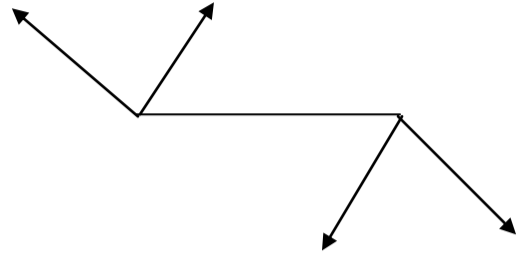   If GT=2.5, find the lengths of PG and PT.

QIIIB) Solve any two out of three- [4]

1.Write the converse of the following statement-

If the corresponding angles formed by a transversal of two lines are congruent then the two lines are parallel.

2. In figure, ray AE ‖ ray BD
   Ray AF is the bisector of ∠EAB and
   ray BC is the bisector of ∠ABD.
   Prove that line AF ‖ line BC .

3. In ΔXYZ, XY=4cm ,YZ=6cm ,XZ=5cm ,PQ=8cm. If ΔXYZ and ΔPQR are similar then find length of PR and QR.

QIV) Solve any three out of four- [9]

1. In figure, point S is any point on side QR of ΔPQR.
   Prove that PQ+QR+PR>2PS.
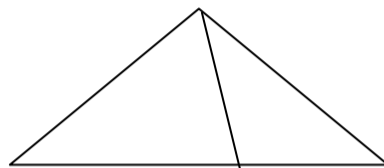
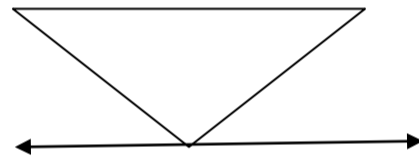2. Construct ΔPQR such that QR=4.2cm ,m∠Q=40° and PQ+PR=8.5cm

3. Draw a circle of radius 3.3cm. Draw a chord PQ of length 6.6cm. Draw tangents to the circle at points P and Q.

QV) Solve any one out of two- [4]

1.In the figure line ED ‖ segAB and E-C-D.
 From the information given in the figure,
 find the values of x ,y and z.

2. Point D is in the interior of ΔABC
   then prove ∠BDC > ∠BAC.

QVI) Solve any one out of two- [3]

1. If the acute angles of a right angled triangle have measures 30° and 60°,then the length of the side opposite to 60° angle is   of the hypotenuse.

2. The perimeter of a triangle is 14.4cm and the ratio of lengths of its side is 2:3:4.
   Construct the triangle.

ALL THE BEST

Thakur Educational Trust's (Regd.)

THAKUR VIDYA MANDIR HIGH SCHOOL& JR.COLLEGE

I TERMINAL EXAMINATION 2018- 2019

Subject: Science II

Name: _____ STD: IX   Roll No: _____

Marks: 40   Date: 04 /10/2018   Time:2 hrs.

Q1A. Complete the following activities: **(5)**

1. Name a plant from Division Bryophyta : [   ]
2. State whether True / False: Plants are autotrophic as they can perform photosynthesis with the help of chlorophyll.
3. Match the column:

| Column A	Column B
1. Tiger	a. Mixed Consumer
2. Bear	b. Secondary consumer
	c. Apex / Top Consumer

4. Fill in the blank and rewrite the statement:
   Process of _____ of milk proteins occurs due to lactic acid.
5. Find the odd one out:
   Grasshopper, Squirrel, Elephant, Frog.

Q1. B. Multiple choice questions: **(5)**

1. Which of the following is an alga?
   a. Funaria   b.Agaricus   c. Spirogyra   d. Nephrolepis
2. Which of the plants bears rhizoids instead of roots?
   a. Moss   b. Fern   c. Mushroom   d. Spirogyra
3. Parallel venation is the characteristic seen in which of the following plant?
   a. Banana   b. Mango   c. Hibiscus   d. Chilly
4. Salts which can be used as supplement of calcium and iron are obtained from _____ acid.
   a. Hydrochloric   b. Gluconic   c. lactic   d. Itaconic
5. Harmful bacteria like _____ in the intestine are destroyed due to probiotics.
   a. Clostridium   b. Streptococcus thermophillus c.Lactobacillus   d. Bifidobacterium

Q2. Answer the following questions (Any 5)   **(10)**

1. Complete the following conceptual picture related to environmental management.
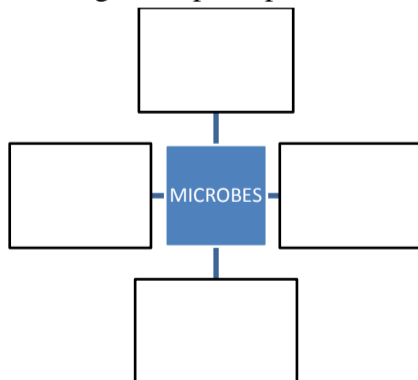

2. What would you do to maintain the equilibrium in the various bio-geo-chemical cycles?
3. Differentiate between monocots and Dicots.
4. How the bread and other products produced using baker's yeast is nutritious?
5. Write the characteristics of subkingdom Phanerogams.
6. Draw Pyramid of Energy in an aquatic ecosystem.
7. Write any two examples of Division Pteridophyta and Gymnosperms.

Q3. Answer the following questions (Any 5)   **(15)**

1. Complete the following table:
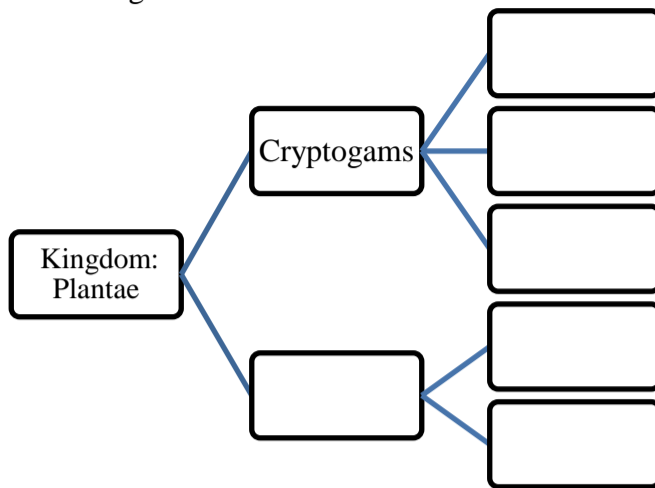
2. Which precautions are necessary for proper decomposition of domestic waste?
3. Identify the picture and write any five points.

4. Give scientific reason – Energy flow through an ecosystem is 'one way'.
5. What are the benefits of mixing ethanol with petrol and diesel?
6. Explain in detail the inter-relationship between the food chain and food web.
7. Probiotic products have gained popularity in recent times. Express your opinion for its increasing popularity among people citing scientific reasons.

Q4. Attempt the following (Any 1)   **(5)**

1. Draw and explain the Nitrogen cycle.
2. Draw and explain the Carbon cycle.

***** **ALL THE BEST** *****

Thakur Educational Trust's (Regd)

THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE

I Term Exam 2018- 2019

Subject: Science I

Q1A. Complete the following activities: **(5)**

1. Write the unit of force in CGS system:

2. Match the bases given in column 'A' with their respective formulae given in column 'B'.

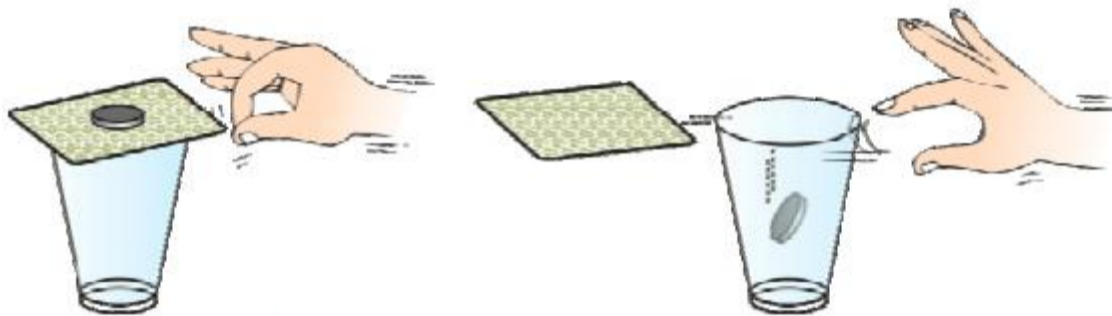| Column 'A'	Column 'B'
1. Weak base	a. CH_3COOH
2. Strong base	b. NH_4OH
	c. NaOH

3. Find the odd one out:

   Chloride, nitrate, hydride, ammonium

4. State True / False: The number (p + n) in the atomic nucleus is called the atomic mass number.

5. Name the compound: $AlPO_4$

Q1B. Multiple choice questions: **(5)**

1. The card sheet moves forward due to applied force and the coin falls in the empty glass due to gravitational force. This observation is consistent with _____.

(i) Newton's first and third law   (ii) Newton's second and third law

(iii) Newton's first and second law   (iv) Law of conservation of energy

2. The kinetic energy of a body of mass 2 kg moving with a velocity of 4 m/s is _____.

(i) 8 J   (ii) 4 J   (iii) 2 J   (iv) 16 J

3. The potential energy of the body is least while _____.

(i) sitting on a chair   (ii) sitting on ground   (iii) sleeping on ground   (iv) standing on ground

4. _____ is the colour of a universal indicator in neutral solution.

(i) red   (ii) violet   (iii) green   (iv) blue

5. Which of the following solutions has PH more than 7?

(i) Pure water   (ii) NaOH Soln.   (iii) HCl   (iv) Lemon juice

Q2. Answer the following question(Any 5)   **(10)**

1. Differentiate between Acids and Bases.

2. Explain with examples what is meant by a 'mole' of a substance?

3. An electric bulb of 60 W is used for 6 h per day. Calculate the 'units' of energy consumed in one day by the bulb.

4. Define 1 J of work.

5. Classify the following into potential and kinetic energy:

(i) Water stored in the overhead tank of a high building   (ii) A bullet fired from a gun

(iii) A stretched rubber band   (iv) Fast moving car

6. The following is the distance-time table of an object in motion:

Time in clock	Distance in km
5.00	0
5.30	20
6.00	40
6.30	60
7.00	80

(i)   What conclusion can you draw about the motion? Is it Uniform or Non-Uniform linear motion?
(ii) When an object is said to be moving with non-uniform speed?
7. Give scientific reason – when an object falls freely to the ground, its acceleration is uniform.

Q3. Answer the following questions (Any 5)   (15)

1. State the condition under which the work done is (i) positive, (ii) negative (iii) zero

2. Deduce the molecular mass of Sulphuric acid. [Atomic mass of H (1), S (32), O (16)]

3. State (i) Law of conservation of matter (ii) Law of constant proportion

4. Write steps in deducing the chemical formulae of the following compounds –

 (i) Sodium sulphate (ii) Potassium nitrate

5. Complete the following table

Name of the compound	Molecular formula	Basic radical	Acidic radical	Name of the compound
Hydrochloric acid				
	KOH			
				Salt

 6. Study the following diagram and explain the formation of ionic compound .

Loss of electron

Gain of electron
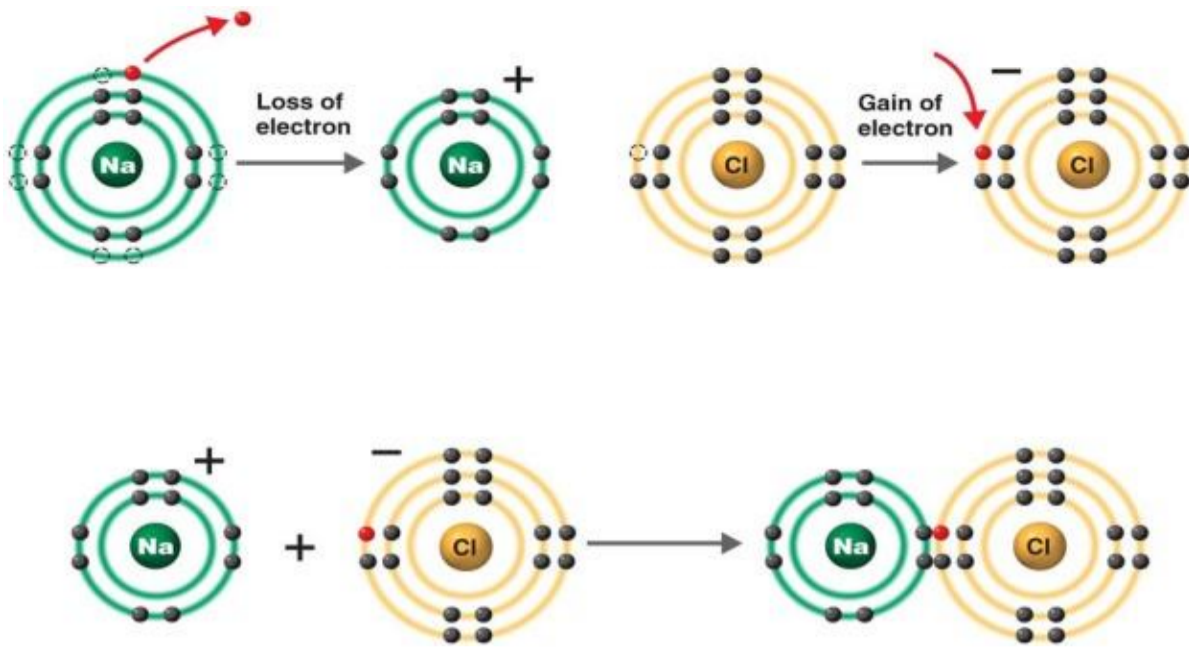
7. What is meant by neutralization? Give two examples from everyday life of the neutralization reaction.

Q4. Attempt the following (Any 1)   **(5)**

1. Deduce the law of conservation of momentum.

2. Deduce the equation describing the relation between displacement and velocity.

****** ALL THE BEST ******