Name: _____STD: IX Div: _____   Roll No: _____

Marks: 80   Date: 01/04/2017   Time:2hrs 45mins.

SECTION I- PROSE   -   (Reading Skills, Vocabulary and Grammar)

Q1 A. Read the following passage and do the activities: -   (10)

A1. Fill in the blanks with correct words from the passage :- (2)

i) As _____ India continued their dominance in Kabbadi.

ii) _____ was equally spectacular as he raided the _____ side with success to gain valuable points

   for India.

iii) _____ went into the break at 21-14 although they should have led by much more.

        As expected India continued their dominance in Kabaddi and <u>clinched</u> their fifth consecutive gold in the Asian Games, when they defeated Pakistan 35-23 in the final at the Aspire Hall yesterday.

  The Kumars, Rakesh and Naveen, played a <u>stellar</u> role in the victory with brilliant tactics. Rakesh displayed his skills as an acrobatic and quick raider as he <u>foxed</u> the Pakistani defenders on numerous occasions, much to the delight of the Indians supporters who had gathered in huge numbers anticipating a gold winning effort from their team.

  Naveen was equally spectacular as he raided the Pakistan side with success to gain valuable points for India. Though Pakistan fought back with defender Wasim Sajjad, who tried his best to bring his team back into the game, it was to no avail as the Indians stamped their authority on the match.

  India went into the break at 21-14, although they should have led by much more. Pakistan unable to <u>penetrate</u> the Indian defence were quite content to rely on the bonus points as they took six bonus points to India's three in the first half.

A2. i) Between which two countries was the above match played?
(1)

    ii) Who played a stellar role in India's victory in the Asian Games?   (1)

A3. 1) Write the words from the passage that mean the following.   (1)

       a) tricked someone-

       b) full control-

    2) Write the noun form of :-
        (1)

       a) anticipating-

       b) winning-

A4. Grammar
       (2)

i) India continued their dominance.(Rewrite the sentence beginning with Didn't India------)

ii) The victory is something special (Rewrite beginning with 'How' special-----)
A5. What do you have to say about India's performance in the above kabaddi match?
(2)

Q1. B. Read the following passage and do the activities: **(10)**

B1 Choose the correct alternative and complete the following sentences.   (2)

a) Roy had won a _____ in a pool tournament.

i) guinea pig;   ii) Zither   iii)paw; iv) tick.

b) The family had once owned a pet _____.

i) Zither ;   ii) guinea pig ;   iii) paw ;   iv)pup

c) The cop said the windows was locked on the inside as tight as a _____.

i) tick ;   ii) zither ;   iii) paw ;   iv) drawer

d) The cop named Roy strummed the zither with a big _____.

i) guinea pig;   ii) zither ;   iii) paw ;   iv) shelf.

The officer in charge reported to mother. 'No sign of nobody, lady.' he said. 'Musta got away-whatt'd he look like?' 'There were two or three of them, 'mother said, 'Whooping and carrying on slamming doors.' 'Funny,' said the cop. 'All ya windows and doors was locked on the inside tight as a tick.'

Downstairs, we could hear the tromping of the other police. Police were all over the place; doors were yanked open, drawers were yanked open, windows were shot up and pulled down, furniture fell with dull thumps. A half-dozen policeman emerged out of the darkness of the front hallway upstairs. They began to ransack the floor; pulled beds away from walls, tore clothes off hooks in the closets, pulled suitcase and boxes off shelves. One of them found an old zither that Roy had won in a pool tournament. 'Looky here, Joe,' he said, strumming-it with a big paw. The cop named Joe took it and turned it over. 'What is it?' he asked me. 'It's an old zither our guinea pig used to sleep on,' I said. It was true that a pet guinea pig we once had would never sleep anywhere except on the zither, but I should never have said so. Joe and the other cop looked at me a long time. they put the zither back on a shelf.

B2 i) Complete the following sentences with words given in the passage. (2)

Action taken by the policemen once they were inside the house.
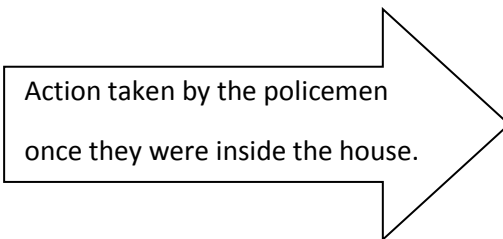
i) They yanked open _____.

ii) They _____ windows.

iii) They _____ the floor

iv) They _____ beds away from walls.

B3. i) Write the simple meanings of the words given in a slang way. (1)

Slang words	Simple meanings.
a) must a	_____
b) Looky here	_____

ii) Who said the following to whom. (1)
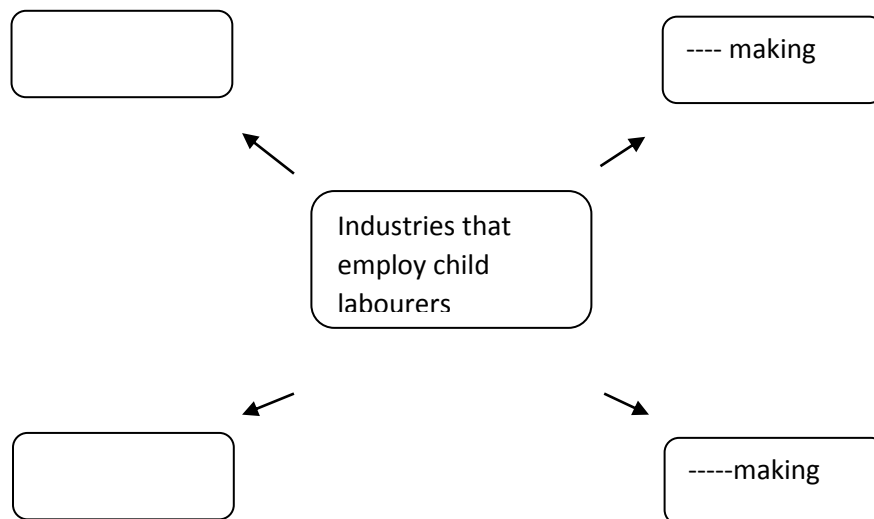a) "No sign of nobody lady".

B4. Grammar

i) Doors were yanked open. (Rewrite beginning with 'They _____)
(1)

ii) The officer in charge <u>reported</u> to mother. (Write the part of Speech of the underlined word).
(1)

B5. If this incident had taken place in your family, how would you have tackled it?
(2)

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

A1. Complete the following web..
(2)

```
                                              ┌──────────────┐
┌──────────────┐                              │ ---- making  │
│              │                              └──────────────┘
│              │                                      ▲
└──────────────┘                                      │
        ▲                  ┌──────────────────┐
        │                  │ Industries that  │
                           │ employ child     │
                           │ labourers        │
                           └──────────────────┘
        │                                             │
        ▼                                             ▼
┌──────────────┐                              ┌──────────────┐
│              │                              │ -----making  │
│              │                              └──────────────┘
└──────────────┘
```

Children work as bonded labourers whether it is in industries manufacturing bidis, matchsticks, bricks or firecrackers. Already, a large number of children have met an early death following mishaps in the manufacture of firecrackers.

Recently, it was reported that children working in a firework factory at Sivakasi in Tamil Nadu were charred to death. Those who survived have not been able to recover completely. In yet another incident in Delhi, at least

four children died in a bizarre incident when a rag picker lit a bunch of polythene packets which had been used for carrying cyanide.

In the coal mines Rymbai in Meghalaya, children work in sub-human conditions. Dozens of them die every year due to suffocation and respiratory ailments.

Meanwhile, in the Rohtak tragedy, those who were killed were in fact bonded labourers. They used to be locked inside the factory gates and forced to work for little or no wages. However, the owner of the factory who has perpetrated these inhuman atrocities was charged with a minor bailable offence- causing death due to negligence.

A2. a) Match the words in Column "A' with meanings in Columns 'B'
(1)

A	B
a) bonded	i) very strange
b) charred	ii) committed (a crime)
c)bizarre	iii) enslaved
d) perpetrated.	iv) burnt

b) What is the above passage about?
(1)

A3.i) Frame a meaningful sentence of your own using the following.   (1)

a) 'ailments'.

ii) Write the adjective forms of .   (1)

a) industries.

b) children.

A4. Grammar :-
(2)

i) Four children died in a bizarre accident. (Rewrite the sentence using the Past Perfect Tense)

ii) Dozens of them die every year. (Add a Question tag)

A5. What is your opinion about 'child labour'. Write your views in about 2 or 3 lines.
(2)

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

B1) State whether the following statements are True or False :-
        (2)

a) The man's garden was already well looked after..

b) The man's gardener took pains to beautify his garden.

c) The neighbour was jealous of the man's garden.

d) The man had only beautiful flowers, no fruit trees in his garden.

        A man bought a house in a certain neighbourhood. He spent a lot of money, furnished it well and kept a well-looked after garden. The garden even had fruit. trees in it. Next door lived his neighbour, a lonely, miserly man who would consider beautifying his place as a waste of hard-earned money. Every day he would look out of the window and see his garden getting beautiful day by day. The neighbour was jealous of him and kept doing all sorts of things to annoy the man.

        One day the neighbour kept a bucket of slops, in the beautiful garden. The man threw the slops, washed it well and filled some big, juicy apples from his trees. He held out the bucket of apples before the neighbour and quietly walked away. The neighbour was left bereft of words by this act of kindness.

B2. i)What did the man buy in the neighbourhood?
        (1)

    ii) What did the neighbour do to annoy the man?   (1)

B3.a) Match   the words in column 'A' with their proper meanings in Column 'B'
(2)

A	B
a) furnish	i) left overs
b) bereft	ii) solitary
c)slops	iii) decorate
d) lonely	iv) speechless

B4. Grammar   (2)

    a) One day the neighbour kept <u>a bucket of slops in the beautiful garden.</u> (Frame a 'wh' question to get the underlined part as your answer)

    b) The man threw the slops washed it bucket well and filled it with some juicy apples.
(Rewrite the sentence using not only -------but also)

B5. What do you think, must have been the feelings of the neighbour when he saw the bucket full of apples? (2)

SECTION II: Poem

Q3 A. Read the following poem and do the activities: **(5)**

A1. Complete the following lines.
(2)

i) But nobody told anybody _____.

ii) Everybody was complaning _____.

But nobody told anybody that are aware of

That he would be in charge of seeing it was taken care of,

And nobody took it on himself to follow through,

And do what everybody thought that somebody would do.

When what everybody needed so did not get done at all,

Everybody was complaining that somebody dropped the ball.

Anybody then could see it was an awful crying shame,

And everybody looked around for somebody to blame.

Somebody should have done the job

And Everybody should have,

But in the end Nobody did

What Anybody could have.

A2. What was an awfully crying shame and why?   (2)

A3. Name and explain the figure of speech: (1)

i) Somebody should have done the job

  And Everybody should have.

Q3B Read the following extract of the poem and do the activities: -   **(5)**

B1. Write four complaints, the children like to do always, as mentioned in the following extract.
(2)

I always so enjoy to dine

With whining, little brats;

Who won't eat half you give them,

they're persnickety as cats.

The soup's too hot, the corns too cold,

The pickles make them choke;

They won't eat meat nor apple sauce,

And naught they'll drink but coke.

They won't eat peas, don't like your bread

For something in it crunches;

They gag on fat, the gravy's gross,

They won't eat grapes in bunches.

B2. What has the poet in the above extract compared the children to be? Why?
(2)

B3. Write the rhyme scheme of the last stanza.
(1)

SECTION --III Rapid Reader

Q4. **Read the following passages and do the activities.**   **(5)**

A.1. Answer in one/two words.   (2)

  a) When was the Sports Day celebrated?

  b) Two events which were common in Tomoe sports as other elementary. Schools.

Tomoe's Sports Day was held every year on the third of November. The headmaster had decided on that day after a lot of research, in which he found out that the third of November was the autumn day on which it had rained the fewest times. Perhaps it was due to his skill in collecting weather data, perhaps it was just that the sun and clouds heeded his desire-that no rain should mar the Sports Day so anticipated by children, who had decorated the school grounds the day before and made all sorts of preparation. Whatever it was, it was, almost uncanny the way it never rained on the day.

As all kinds of things were done differently at Tomoe, its Sports Day, too, was unique. The only sports events that were the same as other elementary schools were the Tug of War and the three-Legged Race. All the rest had been invented by the headmaster. Requiring no special or elaborate equipment, they made use of familiar everyday school things.

A.2. By whom were the events invented? Explain.
(2)

A.3. What was taken into consideration by the headmaster when deciding the date for Sports Day?
(1)

SECTION- IV: Writing Skills

Q5 A Letter Writing: (Informal/Formal)
(5)

A1.   You have noticed your younger brother neglecting his studies, since many days. Write a letter to him advising and scolding him/ for the same.

OR

A2.   Your school is planning to take the students to Kerala. As a class representative write a letter to the manager, Youth hostel, Thiruvananthapuram, Kerala requesting him to provide accommodation to your group. You can use the following hints.: i) 4days stay : ii) Diwali vacation : iii) 150 students, 4 teachers : iv) Cost of the stay : v) Availability of rooms : vi) Sights to visits

Q5 B.1   Report writing/ Interview Writing:
(5)

B1.   A Survey has shown that the percentage of child labour in our country has gone up. As a reporter of 'The Times of India'. Write a report of about 20 lines on the measures adopted to detect and eradicate such cases.

OR

B2.   It has been noticed that nowadays youngsters find it too difficult to choose their career. They are faced with many options in various fields. Frame ten questions that you would like to ask an Expert Career Guidance Counsellor regarding the same.

Q6 A.1 **Read the following information given and transfer it into a Tabular form   (5)**

        The original materials from which soil has formed through long ages are the rocks of the earth's crust. There are three kinds of rocks, made in three different ways. lgneous rocks which were made when the molten materials of which the earth consisted long ago became cooler and solidified are one of these. Granite is an example of igneous rock. Another kind of rock is Sedimentary rock, formed when rivers brought down small pieces of material with them as they flowed into the sea. The matter which they brought down with them fell to the bottom of the sea. and this sediment was slowly pressed and cemented together by other substances into rock. Shale, limestone, and chalk are sedimentary rocks. The third kind of rock is Metamorphic rock. This was formed, for instance, when the lava thrown out by volcanoes affected the material over which it flowed. The heat changed the surface underneath and produced different kinds of rocks, of which slate and marble are two examples.

Type of Rocks	Formed By.	Examples.

OR

A2.   Prepare a fact file for a hill station of your choice. Use the guidelines given below**.**

         a) location ;   b) modes of transport; c) Uniqueness ;   d) What to see; c) any other information of your

         choice.

6B.1 Your are a student of std IX. You have almost completed this stage and on the verge of reaching std X. Write a speech on how you intend to succeed and excel in the upcoming. Board Exams. You may use the following hints. **(5)**

i) Proper planning

ii) Avoid mistakes of past.

iii) Prayer.

iv) Guidance.

v) Self discipline.

vi) Any other points.

OR

B2.   Write a Counterview for the topic 'Our Elderly are the real Torch Bearers'.

View

They have experienced life and show us the pitfalls. They teach us values. We should love and respect our senior citizens. They can guide us in solving our

Q7 A Expand the following :(Any one)   **(5)**

a) Pride goes before a fall.

b) To err is human, to forgive is divine.

c) Service to man is service to God.

OR

A.2. Develop a story where in anyone of the above is the moral of the story. Give it a suitable title.

**** ALL THE BEST****

Thakur Educational Trust's (Regd.)
THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE
III Terminal Exam. 2016- 2017
Geography & Economics

Name: _____ STD: IX Div: ____Roll No: _____

Marks: 40   Date: 06/04/2017

Time:2hrs.

I.A. Fill in the blanks:-

(3)

1. The first sugar factory in Maharashtra was set up at _____ in 1920.

2. The _____ range is considered as the world's highest mountain range.

3. The arrow on the map indicates the _____ direction

I.B. Match the following:

(3)

A	B
1)Coastal region	a)Transport
2)Tertiary occupation	b)Capital of Punjab& Haryana
3)Chandigarh	c)Mangrove forest
	d) National Park

II.A. Give reasons for the following statements:- (Any 2)

(4)

1. Farmers in the Rajasthan desert depend on animal husbandry.

2. Most of the sugar factories are set up in the vicinity of the sugar cane producing areas.

3. Inland waterways of Maharashtra are not well developed.

II.B. Write short notes on:- (Any 2)

(4)

1.Wheat production in Maharashtra.

2. The objectives of the Maharashtra Industrial Development Corporation (M.I.D.C).

3. Soils in Punjab- Haryana Plain.

III.A. Answer the following questions in short. (Any 1) (2)

1. What do you understand by secondary occupations?

2. What is a map?

III.B. Mark & name the following on the outline map of India with suitable index.(Any 2)   (2)

1. Western Himalayas.

2. Lakshadweep.

3. Purvanchal.

III.C. Observe the map given below and answer the questions that follow. (Any 2)   (2)

1) What is Unhavare famous for?

2) Name the hill station in Satara district.

3) Name the places of tourist interest in Jalgaon district.

IV. Answer the following questions in detail. (Any 02) :-
(8)
1.Discuss the characteristics of the Himalayas.
2. What are the causes of migration of population? Explain the effects of it.
3. Discuss the advantages and limitations of roads.

ECONOMICS
QV. Fill in the blanks.
(2)
1. _____ gave the 'Welfare-oriented' definition of economics.
2. Baluta system consisted of _____ balutedars.

Q.VI. Answer the following in 1-2 sentences .(any 03)
(6)
1. What was the nature of human wants in the pre-historic periods?
2. What is meant by courier?
3. What is demand?
4. What is personal income?

QVII. Answer the following questions in detail .(Any 01)
(04)
1. Explain various types of Economy.
2. Name the various types of family budget. Explain them.

**** ALL THE BEST****

QI A) Fill in the blanks.   **(3)**

1) The period in which the skill of writing was unknown & historical events were not available in written form, is called as _____ period.

   (ancient, prehistoric, palaeolithic)

2) A large number of _____ researches were carried out in Physics and Chemistry. (scientific, fundamental, magnetism)

3) _____ dynasty of Caliph Arabs expanded their empire upto Samarkand in the east.

   (Abu Bakr, Umayyid, Usman)

QI B) Match the column: -   **(3)**

A	B
1) Rousseau	1) Satirical writings
2) Robespierre	2) Representative of Third Estate.
3) Mirabeau	3) The prophet of French Revolution
	4) Massacre of innocent revolutionaries

QII Answer in 25- 30 words each.(any 2)   **(4)**

1) Give the meaning of the word 'imperialism' and write the definition

2) Write about the contribution of Shakespeare to literature.

3) The French revolution is regarded as a significant event.

QIII) Give Reason in 25- 30 words each .(any 2)   **(4)**

1) The Travelogue written by Stanley, created curiosity among the Europeans about Africa.

2) An International trade movement began in Europe.

3) There was a decline in the faith of the common man in the Church.

QIV) Answer in 40-50 words each. (any 2)   **(6)**

1) Why did Austria announce the war against Serbia?

2) State the importance of the Renaissance.

3) Write about the 'Eight fold path' preached by Buddha.

QV) Answer in 60-80 words (any 2)   (8)

1) Explain the movement of 'Division of Bengal'.

2) Write about the Declaration of Human Rights.

3) State the commands of Islam.

POLITICAL SCIENCE

QVI) Fill in the blanks   (3)

1) ' _____ and justice for all of us' is motto of the Universal Declaration of Human Rights. (Status, Equality, Dignity)

2) To maintain and _____ power is the main aim of the political parties. (rule, capture, grab)

3) To _____ the constitution, the Constituent Assembly appointed 22 committees. (draft, propose, formulate).

QVII) Answer in one sentence each.(any 3)   (3)

1) When is referendum adopted?

2) Why do groups emerge?

3) State any two party systems.

4) Who was the President of the constituent Assembly?

5) What does government agree while granting rights?

QVIII) State True Or False with reason .(any 2)   (4)

1) People who share common political opinion from political party.

2) India does not have an official religion.

3) Evaluation of the government is possible through the study of politics.

IX) Answer in 25-30 words each .(any 1)   (2)

1) Write a short note on Communist party of India.

2) State the significance of the Preamble.

****ALL THE BEST****

QI) Fill in the blanks:- **(5)**

1) In manufacturing industry, robots are used for _____.

2) The _____ operator in Excel 2007 combines a range of cells on a worksheet for calculations.

3) Advancing from one slide to the next is called a _____.

4) An Unlicensed copyrighted software is called a _____ software.

5) The rules and laws for using a software purchased is specified in _____.

QII) State whether the following statements are True or False. **(5)**

1) Code of Ethics is a set of Moral standards.
2) Language allow humans to express themselves effectively.
3) URL of a website contains the @ symbol.
4) A computer is an interactive device.
5) The office button has the option to increase the security of a document.

QIII) Rewrite the following statements by selecting correct options:- **(6)**

1) The default page orientation in the WORD window is called _____.
   a) Upright   b) landscape   c) A4   d) Portrait.

2) The _____ operator combines a range of cells on a worksheet for calculations.
   a) Text   b) Range   c) Union   d) Intersection.

3) In Power Point 2007, pictures can be added to speaker's notes in the _____.
   a) Notes pane   b) Outline pane   c) Notes Page   d) slide sorter.

4) A _____ specifies the procedure used to transfer information over the internet.
   a) HTML   b) Domain name   c) Website   d) protocol

5) _____ software online shows what you see when you look up at the stars on any given day and

   time.

   a) Google Maps   b) Babel fish   c) Stellarium   d)Planetarium.

6) Generally accepted social Standard of right and wrong actions is called _____.

   a) Morals   b) ethics   c) guidelines   d)code of standard.

QIV) Rewrite the following statements by selecting two correct options:- (Any two) **(4)**

1) Forms of information include _____, _____.
   a) data   b) email   c) CD-ROM   d) images

2) The ethical issues for computer users are _____, _____.
   a) Software piracy   b) professional standard   c) accuracy   d) unauthorized access

3) _____, _____ are translation softwares.

   a) Babel Fish   b) Word Grid   c) World Magic   d) Wordsmith Tools

4) Protocols for the internet are _____, _____.

   a) FTP   b) TCP   c) IP   d) SMTP

QV) Answer in brief: - (Attempt any six) **(12)**

1) Define the terms a) Moral b) ethics.
2) List some of the software's/websites that may be used in language learning.
3) Disadvantages of email.
4) How will you add the same transition to all the slides in a presentation in PowerPoint 2007?
5) List the various use of Excel 2007.

6) Write a short note on :- Navigation in Excel.
7) How can one get help on any topic in word 2007.
8) State the implication of ICT in education.

QVI) Answer in brief :- (Attempt any 2)   **(8)**

   1) Discuss ethics for a computer professional.
   2) Write a short note on the History of the Internet.
   3) Write a short Note on copyright.
   4) List the advantages and Uses of word 2007.

**** ALL BEST****

Thakur Educational Trust's (Regd.)
Thakur Vidya Mandir High School & Junior College
(ISO 9001:2008 CERTIFIED)

III Terminal Exam 2016-2017

Std. : **IX**   Sub. : **Geometry**   Marks : **40**

Date : 10/04/2017   Time : 2 hrs.

Q.1. Attempt the following (any 5).
                   [5]

1) In $\triangle ABC$ Seg AB$\cong$Seg AC and $\angle$ A = 80° then find $\angle$B

2) Using Euler's formula, find V, if E = 30 and F =12.

3) In $\triangle$ ABC, points P & Q are the midpoints of sides AB and AC respectively and PQ = 20cm, Find BC.
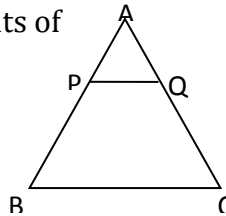
4) Find the co-ordinates of the midpoint P of Seg AB if A$\equiv$(4, 6), B$\equiv$(-4,6)

5) Draw line l and take any point P on it Draw line m perpendicular to the line l at point P.

6) If $\sin\theta= \frac{4}{5}$ and cot $\theta= \frac{3}{4}$, find cos θ.

Q.2. Attempt the following. (Any 4)
                        [8]

1) Draw a circle of radius 2.6cm. Draw a tangent to the circle from any point on the circle.
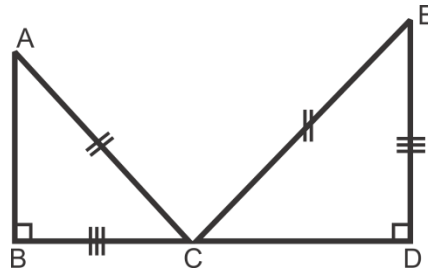
2) Find the length of the arc of the circle of radius 4.2cm with area of the sector 18.48cm²

3) In the figure, radius of the circle is 20cm and chord AB is 32cm. Find distance PM.
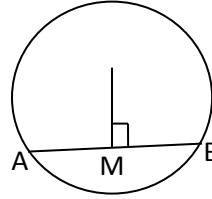
4) Find the value of $2\tan^2 45°$ + cos² 30° - sin²60°

5) If the angle θ = -45°, find the value of sin θ and cos θ.

Q.3. Attempt the following. (Any 3)
[9]

1) In the figure, m∠ABC = m∠CDE = 90°
   Seg AC ≅ Seg CE,
   Seg BC ≅ Seg ED
   Show that m∠ACE = 90°

2) Construct a right angled triangle PQR where PQ = 6cm, ∠ QPR = 40°, ∠ PQR = 90°. Draw circumcircle of Δ PQR.

3) Prove that- 'The Segment joining midpoint of a Chord and the centre of a circle is perpendicular to the chord.

4) If sec θ = $\frac{2}{\sqrt{3}}$, then find the value of $\frac{1-Cosec\theta}{1+Cosec\theta}$, where θ is in IV quadrant.

Q.4. Attempt the following. (Any 2)
[8]

1) Prove that- Two right angled triangles are congruent if the hypotenuse and a side of one triangle are congruent to the hypotenuse and corresponding sides of other triangle.

2) If sin θ = $\frac{45}{53}$, find the value of cosec²θ - cot² θ

3) A tree is broken by the wind. The top struck the ground at an angle of 30° and at a distance of 30m from the root. Find the whole height of the tree. ($\sqrt{3}$ = 1.73)

Q.5. Attempt the following (Any 2).
                        [10]

1) Calculate the area of the shaded region. In the figure, ▢ ABCD is a square
    with side 8cm each.
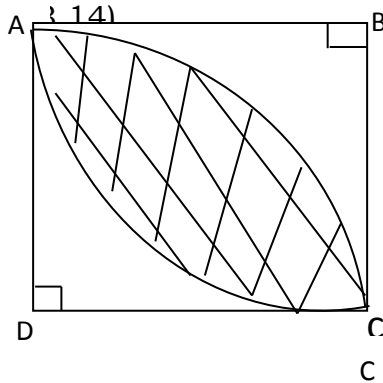
2) ▢ ABCD is a kite in which diagonal BD bisects diagonal AC in point O. m∠
    OBC = 20°

    and m∠OCD = 40°

    find i) m ∠ ABC   ii) m ∠ ADC   iii) m ∠ BAD.

3) The line segment AB is divided at P ≡ (1,1) internally in the ratio 5:2 and co-
    ordinates of point B ≡ (-1,-1). Find the co-ordinates of point A.

All the Best

D

Thakur Educational Trust's (Regd.)
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(ISO 9001:2008 CERTIFIED)

III Terminal Exam 2016-2017

Std. : **IX**   Sub. : **General Math II**   Marks : **40**

Date : 10/04/2017   Time : **2** hrs.

**Q.1. Attempt the following (any 5).**
                [5]

7) In $\Delta\ ABC,\ m\angle A = x, m\angle B = 2x, m\angle C = 3x$, find the value of x.

8) Find the total surface area of cube with side 7cm.

9) Draw $\angle$PQR = 70° and bisect it.

10) Find the length of largest Chord of the circle of radius 7cm.

11) If cos θ = $\frac{7}{9}$ then find sec θ.

12) Find the modal value for the following data.
    50, 70, 50, 80, 70, 70, 70, 80

Q.2. Attempt the following. (Any 4)
                                                    [8]

6) Point G is the centroid of Δ LMN.
   If LG = 14cm, find GQ.
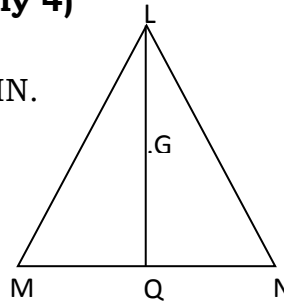
7) The radius of a sphere is 14cm. Find total surface area of a sphere.
8) Draw a line l and take a point M outside line l. Draw a perpendicular from the point M to the live l.
9) Draw a tangent at any point R on the circle of radius 3.4cm and centre P.
10) Radius of a circle with centre O is 8cm. Points A and B are such that AO = 6cm and BO = 10cm. State which of the points A and B is in the interior and exterior of the circle.

**Q.3. Attempt the following. (Any 3)**
                [9]

5) Find the total cost of white washing the 4 walls of a cuboidal room at the rate of ₹ 15 per m². The internal measures of the cuboidal room are length 10m, breadth 4m and height 4m.

6) Draw the circumcircle of an equilateral Δ XYZ with side 6.3cm.

7) In the rectangle PQRS, PQ = 6cm, PR = 7cm. Construct rectangle PQRS.

8) In Δ $ABC, m \angle ABC = 90°$. AB = 3cm, BC= 4cm, AC = 5cm, find all trigonometric
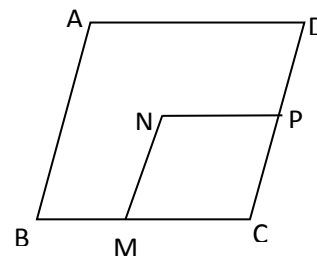   ratios of ∠ A.

Q.4. Attempt the following. (Any 2)

[8]

4) In the figure, $\angle ABD$ in an exterior angle of $\triangle ABC$, then
   find the largest and the
    shortest side of Δ ABC.
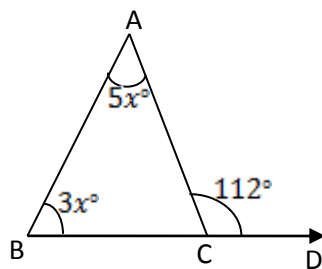
5) In the figure, □ $ABCD$ and □ $MNPC$ are
    parallelogram , $\angle A = 110°$.
    Find the measures of all the angles of
    parallelogram MNPC.

3) The following data gives the weights (in kg) of 40 students in a class. Prepare a
   cumulative frequency distribution table, taking class intervals
   20-25,   25-30,   30-35,....

   37, 38, 31, 34, 32, 41, 27, 22, 23, 34, 21, 30, 41, 27, 28, 24, 40, 33,
   31, 38, 39, 36, 37, 32, 30, 25, 28, 28, 34, 21, 28, 27, 29, 33, 38, 34, 38, 40, 37,
   23.

Q.5. Attempt the following (Any 2).

[10]

4) In Δ ABC AB =AC, Δ B = $2(x + 5)°$ and ∠ C = 80°.
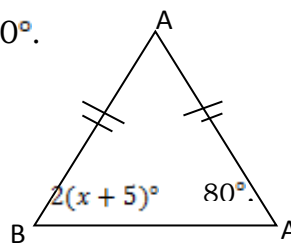
Find the value of x. and $m\angle A$ and also

find the smallest and greatest side of $\triangle ABC$.

5) Diagonal AC of a rhombus ABCD is equal to its side. Find all the angles of the rhombus.

6) Find the median of the following data.

No of flowers on the branch(x_1)	1	2	3	4	5
No of days (f_i)	5	6	11	3	3

All the Best

Q.1. Attempt any 5 sub-questions from the following. [5]

13) Let A and B be two sets such that n(A) = 5, n(AUB) = 9, n(A∩B) = 2. Find n(B).

14) Simplify $(3xy^2 + 4x^2)(xy - 3x^2)$

15) For a certain frequency distribution, median=156, mode=180 obtain value of mean.

16) Write following quadratic equation in standard form $ax^2 + bx + c = 0$
$(m + 4)(m - 10) = 0$

17) Point (2,4), (-1,-2) and (3,6) lie on a line write the equation of that line.

18) Classify the following sets as finite or infinite.
(i) B ={y | y is a factor of 13}   (ii) D = {x | x = 2^n, n $\in$ N}

Q.2. Attempt any 4 sub-questions from the following..

[8]

11) Draw a Venn diagram, showing the subset relations of following sets.
A = {2, 4} , B ={ x | x = 2^n, n<5,n $\in$ N}
C = { x | x is an even natural number ≤16}

12) Find the product. $\overline{3}$ 3× $\overline{\sqrt{3}}$ × $\overline{3}$ 3 .

13) In a group of students, 50 students passed in English, 60students passed in Mathematics and 40 students passed in both the subjects. Find the number of students who passed either in English or in Mathematics.

14) Factorize : $x(2x + 3) = 35$

15) The Value of the polynomial $ay^2 + 2y - 6.$ for $y = -3$ is $15.$ Find a.

Q.3. Attempt any 3 sub-questions from the following.
[9]

1. Find the quadratic polynomial, the sum and product of whose zeroes are -11 and 10 respectively.
2. Solve the following simultaneous equation $0.9x + 0.5y = 6$; $0.7x + 0.7y = 5.6$
3. Solve the following quadratic equation by using formula method $(2x^2 + x - 4) = 0$.
4. Solve the following simultaneous equations.
   using Cramer's rule. $x + 2y + 4 = 0, \ 3x = -4y - 6.$

Q.4. Attempt any 2 sub-questions from the following.
[8]

6) Solve the following quadratic equation by completing square method.
   $4p^2 + 7 = 12p$.

7) Below is given frequency distribution of 'Daily Wages' in ₹ of 130 workers.

Daily Wages in ₹	85-84	85-89	90-94	95-99	100-104	105-109
Number of Workers	10	20	25	40	30	05

   Find 'Modal Wage' of a worker.
8) Write the nature of the graph of the following equations.
   $(i) \ y = 3$ \quad $(ii) \ y + 4 = 0$
   $(iii) \ x = 4$ \quad $(iv) \ x + 2 = 0$.

Q.5. Solve any 2 sub-questions from the following.
[10]

7) Rationalize the denominator $\frac{1}{\sqrt{3} - \sqrt{2} - 1}$

8) The area of a rectangle gets reduced by 9 sq. units if its length is reduced by 5 units and the breadth is increased by 3 units. If we increase the length by 3 units and breadth by 2 units the area is increased by 67 sq. units. Find the length and breadth of a rectangle.

9) If $\dfrac{x}{b + c - a} = \dfrac{y}{c + a - b} = \dfrac{z}{a + b - c}$ $= 0$, then show that x(b - c) + y(c - a) + z(a - b)

All the Best

III Terminal Exam 2016-2017

Std. : **IX**   Sub. : **General Mathematics-I**   Marks : **40**

Date : 11/04/2017   Time : 2 hrs.

Q.1. Attempt any 5 sub-questions from the following. **[5]**

19) Simplify using laws of indices $8^3 \times 8^4$

20) Find profit or loss if CP = ₹ 59, SP = ₹ 80 and other changes = ₹ 10.

21) Multiply the algebraic expression. 9p;10p-4q

22) Check whether given equation is quadratic equation. $x^2 + \frac{2}{x} + 10 = 0$.

23) Calculate the simple interest for the principle of ₹ 5,000 at the rate of 10p.c.p.a for three years.

24) Write the given quadratic equation in the form $ax^2 + bx + c = 0$
    -4y+3= y^2

Q.2. Attempt any 4 sub-questions from the following. **[8]**

16) Solve the given equation. $\frac{x}{7} + \frac{x-4}{3} = 2$

17) Determine whether $x = 5 \: and \: y = 3$ is the solution of the equation
    $2x + 5y = 25$.

18) Solve the given quadratic equation by factorization method $b^2 + 2b - 35 = 0$

19) Find square root of the given number by division method upto two decimals
    59.03

20) Out of 80,000 adults of Babulgaon village, 76,800 adults are literate. Find the percentage of literate adults.

Q.3. Attempt any 3 sub-questions from the following. **[9]**

1. If $\frac{7a+2b}{7a-2b} = \frac{91}{63}$ then find the value of $\frac{a}{b}$

2. Prathmesh invested ₹ 50,000 at the rate of 9p.c.p.a. in a two year fixed deposit,
   in a bank. How much amount did he get at the end of two years.

3. Solve the given quadratic equation by completing square method
   $5y^2 - 4y - 1 = 0$

4. Solve the given simultaneous equation by using equating the Coefficient method

$3x + 2y = 29; 5x - y = 18$

Q.4. Attempt any 2 sub-questions from the following.
[8]

9) Length of a rectangle is 5cm more than thrice its breadth. If the perimeter of the rectangle is 58cm, Find its length and breadth.

10) For earning 13% profit a notebook is sold for ₹ 56.50, find the cost price of the note book.

11) If $\frac{p}{2q+r} = \frac{q}{2r+p} = \frac{r}{2p+q}$ and if $p + q + r \neq 0$ then show that each ratio $= \frac{1}{3}$

Q.5. Attempt any 2 Sub-questions from the following.
[10]

10) If $64m^2 - 96mn + 36n^2 = 4p^2$ then find p.

11) Sangita wants to borrow ₹ 7,000at the rate of 14% what is the difference between the amount she has to pay by simple interest and by compound interest at the end of two years.

12) A rectangle whose length is 4m more than its breadth has an area of 45sq.m. Find the breadth and length of the rectangle.

All the Best

QI. A.) Fill in the blanks with the appropriate words given in the brackets and complete the following sentences:(start, the approach-run, runaway, Mother)   (5)

1) Sportsmanship is defined as being fair _____ and generous towards fellow competitors.

a) polite and honest   b) name   c) discriminate   d) sportsmanship

2) Sports gives an individual _____ and respect in society.

a) fame and name   b) recreation   c) competition   d) discriminate

3) Sports is the best form of _____

a) Nationality   b) Name and Fame   c) Champion   d) Sportsmanship

4) Due to lack of _____ we often see fights on the fields.

a) Polite   b) Recreation   c) Champion   d) Sportsmanship

5) Sports teach you not to _____ on the basis of sex, caste, and nationality.

a) discriminates   b) honest   c) polite   d) Sportsmanship

B) Match the Following: -   **(5)**

A	B
1) Sprints	a) Baton-exchange.
2) Relays	b) The clearance
3) Long jump	c) stop- board
4) High-jump	d) starting blocks
5) Shot-put	e) Take-off board.

C) State Whether the following statements are "True or False "   **(5)**

1) The better one's fitness the better one can work or do a laborious Job.

2) You must drink 3 to 4 litter of water daily.

3) Aerobics is an exercise form performed with breaks in-between.

4) Non- Passing of waste matter(stool) is an invitation to ill- health and disease.

5) Exercise does not help to reduce fatness.

D) Answer the following in one sentence: **(5)**

1) Meaning of Good health?

2) How to do Dand-Baithaks help to develop your body?

3) Define flexibility?

4) Physical fitness is classified under two types name them?

5) Name the three indices or methods mainly used to determine the body composition of individuals.

Q II.) Answer the following in short: (Any Four) **(12)**

1) Why do we see fights in fields?

2) What is the hallmark of a true Sportsman?

3) Give three examples of what sports teach an Individual.

4) Name two dreadful diseases caused due to smoking and chewing tobacco.

5) Write three instance wherein the throw is termed invalid in the shot-put events.

Q3) Answer the following in short: (Any Four) **(12)**

Note : The benefits gained from the following Asanas:

 1) Vipareet Karani

 2) Baddhapadmasana

 3) Bhadrasana

 4) Anulom-Vilom Pranayama,

 5) Halasana.

Q4) Answer the following questions in brief : (Any Three) **(12)**

1) Write three important benefit gained through practice of "Yoga".

2) What benefits are gained from Sports?

3) What is a Medical Emergency?

4) What is the first aid given for bone fractures?

Q5) Answer the following given question in brief: (Any three) **(12)**

1) Pranayama

2) Sportsmanship.

3) Surya Namaskar.

4) Effects of bad environment.

Q6) Calculate the Body Mass Index. (BMI) (Any Two)   **(12)**

1) His weight - 67k.g - height -152c.m or 1.52metres.

2) Her weight - 93k.g - height -167c.m or 1.67metres.

3) His weight - 75k.g - height -150c.m or 1.50metres.

****ALL THE BEST****