

Thakur Educational Trust's (Regd)
 THAKUR VIDYAMANDIRHIGH SCHOOL & JR. COLLEGE
 I PRELIMINARY EXAMINATION 2017- 2018

Subject : ENGLISH

Name: _____ Std: X Div: _____ Roll No: _____
 Marks:80 Date: 08/09/2017 Time: 2hrs45 min

SECTION I –PROSE (Reading skills, Vocabulary and Grammar)

Q1A. Read the following passage and do the activities (10)

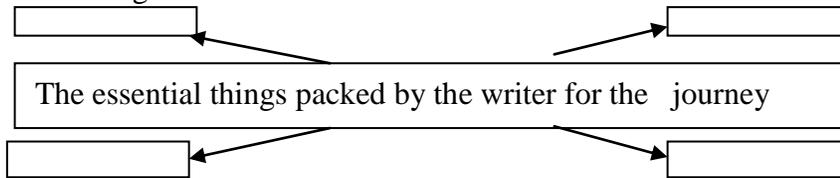
A.1 Fill in the blanks: (2)

- a) The writer describes the towel as a-----.
- b) The towel served as a mark of ----- for the writer.
- c) The journey was breathtaking in its -----.
- d) Nothing happened for hours, except the ----- of passengers.

How does one prepare for a journey like this? I packed a towel along with a few other essentials, a pullover, a new notebook and two pens. Those only managed to increase the size and weight of my bag, whereas the towel was the hero. It mopped the sweat in the plains and kept me warm when we reached the cold hills; it also served as a mark of identity from the way it was tied around my head.

It was a journey at once breathtaking in its ambition- miles and miles of immeasurable diverse country laid out for you to see through a poky window, giving you lofty ideas of “discovering India”- and one full of ennui. Nothing happened for hours, except the chatter of passengers, and the slowing down of time.

A2. Complete the following web (2)



A3. a) Pick out two words from the passage that are formed by adding a **prefix**. (1)

b) Pick out words from the passage which mean: i) feeling of boredom ii) very exciting (1)

A4.a) It mopped the sweat in the plains and kept me warm. (Rewrite using ‘ not only but also.... ’) (1)

b) Those only managed to increase the size and weight of my bag. (Pick out the infinitive verb) (1)

A5. Long journeys are tedious and boring. Do you agree? Give reasons to support your answer. (2)

Q1B. Read the following passage and do the activities. (10)

B1. Name the following: (2)

- i) Two people who influenced Mashelkar : 1. ----- 2. -----
- ii) The Director of the Board of Tata Motors: -----.
- iii) Subject taught by Principal Bhawe: -----.

I am on the board of Tata’s now and it is very interesting that the same Bombay House where I used to go to collect that 60 rupees per month now one goes and sits there as a Director on the board of Tata Motors. The turn, that these 40 years have taken, is very interesting. it has all been possible because of the chance I got to do higher studies at the insistence of my mother. She gave me values of my life. She was one of the noblest parents I have met in my life.

So, my greatest guru was my mother. My second great guru was Principal Bhawe taught us Physics. Because it was a poor school, I remember, it had to innovate to convey to the young students the message of Science.

I still remember one of the interesting experiences when, on a Friday afternoon, Principal Bhawe took us out into the sun to demonstrate to us as to how to find the focal length of a convex lens. He had a piece of paper here, a convex lens here and he moved it up and down and there was a point when there was a point when there was a sharp focus and a bright spot on the paper. He showed the distance between paper and the lens and said that this distance was the focal length. But then the paper started burning. For some reason, he then turned to me, and said, “Mashelkar, if you focus your energies like this, you can burn anything in the world.”

My young friends, from this I got two lessons- first the philosophy of my life that if we focus, we can achieve anything. And the second about the power of science. It was so powerful. I thought to myself why don’t I become a scientist. It left an indelible mark in my mind.

B 2. List the following: (2)

Lessons learnt by Mashelkar from Principal Bhawe: 1. -----
2. -----

B3. Match the words with their meanings. (2)

A	B
i) To show something or to explain hoe it works	a)innovate
ii) To give a lot of attention to something	b)indelible
iii)To introduce changes and new ideas	c)demonstrate
iv) having a permanent effect	d) focus

- B4.a)** Principal Bhave said, “Mashelkar, if you focus your energies like this, you can burn anything in the world.” (Rewrite in Indirect Speech) (1)
- b)** Principal Bhave taught us Physics. (Add a Question Tag) (1)
- B5.** Why, does Mashelkar call his mother the greatest Guru? (2)

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

A1. Choose the correct alternative as an answer to the questions: (2)

- i) What did the narrator feel about the late comers?
 a) temper b) furious c) wrath
- ii) What is customary about meetings?
 a) commence late b) pacify c) wrong committed.

In the early days I got furious and fumed on seeing my colleagues arriving late in the office. My wrath had no bounds when my subordinates were unable to complete the allotted work in time or delaying the work for petty reasons. I couldn't resist my temper and displeasure when I saw marriages taking place 2 to 3 hrs later than the scheduled time. People used to calm down by saying that this is India. In all the important office meeting, the delegates and the members would arrive a bit late and would give trivial reasons for the wrong committed. My friends would pacify me by saying that it has become a custom to commence a meeting behind schedule by an hour or two

- A2.i) What did the writer couldn't resist? (1)
 ii) How did the people calm down the writer? (1)
- A3. Make a list of words used for '**anger**' from the extract. (2)
- A4.i) My subordinates were unable to complete the allotted work in time.(Pick out the Prepositions) (1)
 ii) My wrath had no bounds. (Separate the **Subject** and **Predicate**) (1)
- A5. What is your opinion about punctuality? (2)

Q2B. Read the passage and complete the activity given below. (10)

B1. State whether the given statements are true or false: (2)

- i) She had to wade through ankle-deep, knee-deep sometime waist deep water.
 ii) Hundreds of pedestrians were r down running on both the sides of the road.
 iii) People were crossing the water on their own.
 iv) They were inviting us to refresh ourselves with a cup of warm tea.

Yamuna informed that as neither the train nor the bus services had resumed so far, she and her colleagues would be leaving the office on foot. She reached home after ten hours. There was water everywhere and she had to wade through ankle-deep, knee-deep sometime waist deep water. She came across what looked like a big lake with neck-deep water. People were crossing the water assisted by volunteers. They were carrying poles, ropes and empty plastic cans to be tied to the waist to keep floating in the case of an emergency. “Holding the poles firmly we waded through the water for almost half a kilometer. We were completely drenched but the spirit of service by those volunteers kept us warm. Walking further we reached the Highway and lo! Hundreds of pedestrians were walking down on both the sides of the road. Interestingly enough, various service organizations had opened free tea stalls proffering biscuits and tea and they were inviting us to refresh ourselves with a cup of warm tea. What a grand service during a natural calamity like this! On the way I could see the dead bodies of sheep, goat and one or two buffaloes. In the hutments bordering the Highways many had collapsed never to raise their head again. Even a fleet in glance was sufficient to tell that the loss was huge and beyond estimate.”

Mohini started at 3.00 p.m. By then both the Western and the Central railways had started skeletal services for short distances. Mohini reached home by train, taxi and auto. Thursday the 28th July was the second day of the public holiday. It was a real holiday for all including the electricity and rain. There was milk supply and water supply too. The newspaper brought in more news and pictures of the tragedy.

- B2.** Answer in one word. (2)
 i) How long did it take Yamuna to reach home?
 ii) Who assisted the people to cross the water?
- B3.i)** Find the words in the passage which means 1) completely wet. 2) Disaster (1)
 ii) Give the verb form of: 1) loss 2) organization (1)
- B4.i)** They were carrying poles, ropes and empty plastic cans. (Identify the tense of the verb and change to Past Perfect Continuous Tense) (1)
 ii) She came across what looked like a big lake with neck-deep water. (Frame '**Wh**' question to get the underlined part of the sentence as answer.) (1)
- B5.** Give your reasons for the frequent floods in Mumbai. (2)

SECTION II (POETRY)

Q3 A) Read the extract and do the following activities. (5)

- A.1.** Complete the following lines. (2)
 i) The little boy grows
 ii) All belongs

I'd tuck you in safe at night
 and hear your prayers, turn out the lights,
 Then tip toe softly to the door...
 I wish I'd stayed a minute more.

For life is short, the years rush past....
 A little boy grows up so fast.
 No longer is he at your side
 His precious secrets to confide.

The picture books are put away,
 There are no longer games to play,
 No good -night kiss,
 No prayers to hear...
 That all belongs to yesteryear.

My hands, once busy, now are still,
 The days are long and hard to fill,
 I wish I could go back and do
 The little things you asked me to.

A.2. Complete the following Table:

(2)

A	B
1. prayers	a) confide
2. rush	b) still
3. secrets	c) hear
4. hands	d) past

A3 Name and explain the figure of speech.

(1)

My hands, once busy, now are still

Q3B. Read the following extract and do the activities. (5)

B1. Fill in the blanks with correct alternatives from the bracket and rewrite. (2)

- i) After eating three full slabs of cake, the children will-----.(calmly ask for more/truly be pleased)
 ii) The poet describes the children as ----- guests..(sad and nervous/picky and undesirable)

Tomatoes, onions, peppers, fish,
 Garlic nor cottage cheese;
 Oh, it's a dish uncommon rare
 That truly seems to please.

No red sauce may the ice cream have,
 "It's bleeding," they will say;
 And gravely hand it to their mum
 To take it clean away.

But let us speak of chocolate cake,
 It must be frosted o'er;
 Then they'll devour three full slabs,
 And calmly ask for more.

Oh, I do so always love to eat
 With picky little pests
 Whose parents joy to make them
 The most undesirable guests!

B2 i) What is the tone of the poem?

(1)

ii) What is the rhyme scheme of the poem?

(1)

B3. Name and explain the Figures of Speech:

(1)

Oh, it's a dish uncommon rare

SECTION III (RAPID READING)

Q4. A. Read the following passage and do the activities. (5)

A 1. Which particular line of crime did Intruder embrace?

(1)

Gerrard : With you figuring so largely in it, that is understandable. By the way, what particular line of crime do you embrace, or aren't you a specialist?

Intruder : My specialty's jewel robbery. Your car will do me a treat. It's certainly a dandy bus.

Gerrard : I'm afraid, jewels are few and far between in the wilds of Essex.

Intruder : So are the cops. I can retire here nicely for a little while.

Gerrard : You mean to live with me? A trifle sudden, isn't it; you've not been invited.

Intruder : You won't be here long, so I didn't care to ask.

Gerrard : What do you mean?

Intruder : This is your big surprise. I'm going to kill you.

Gerrard : A little harsh, isn't it?

Intruder : (with heavy sarcasm) Yeah, I'll be sorry to do it. I've taken a fancy to you, but it's just got to be done.

Gerrard : Why add murder to your other crimes? It's a grave step you're taking.

A.2 Who said to whom: (2)

i) So are the cops. I can retire here nicely for a little while.

ii) A little harsh, isn't it?

A.3. If a stranger befriend you, would you share your secrets or information about yourself with him/her? Why?. (2)

SECTION IV -WRITING SKILLS

Q5 A Letter writing –Informal or Formal. (5)

A1 Imagine you were the victim of the rain on Tuesday 29th August 2017 that had brought Mumbai to a standstill with water logging and thus flooding the city. Thousands waded through waist-deep water. Write a letter to your friend describing the fateful experience you had gone through.

OR

A2 The rain on Tuesday 29th August 2017, 30 times the average, had brought Mumbai to standstill with water logging and thus flooding the city. Thousands waded through waist-deep water. Write a letter to the concerned department of the Municipal authorities about the situation demanding a solution to the problem.

Q5 B Report writing or Dialogue writing/Interview Questions. (5)

B1. Read the notice posted on your class notice board:

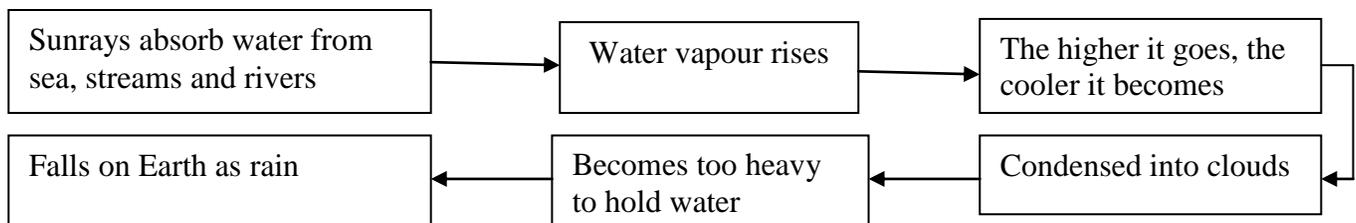
Hanmant and Raghunath are preparing for a project in History. As a result they get into a conversation on the present day situation of our nation. Write the conversation putting relevant focus on the problems faced by the nation

OR

B2 Imagine you are a reporter from the 'NDTV'. You have to interview a victim of the rain on Tuesday 29th August 2017. Prepare 10 questions that you would like to ask him/her .

Q6A Information transfer. (Non-Verbal to Verbal) (5)

A1 Observe the following figure and express your interpretation into a paragraph.



OR

A2. Read the following extract and transfer the information into a Pie Diagram.

Modes of Transport used by Children.

the children come to school by the school bus . 17% of the children are dropped and picked by their parents. Whereas 26% come to school walking. Cycling seems not to be a preferred option by children as only 8% come to school cycling. 4% of the children use personal motorized vehicles to come to school.

Q6B Speech or View and Counter view. (5)

B1. “ Ask not what my country can do for me; ask what I can do for my country.” Based on this ,draft a speech on the topic “ What can I do for India?”

OR

B2. Imagine that a editor of a reputed newspaper has made a general appeal for the ‘View Counterview’ column of the newspaper on the topic: ‘How effective is the law, which makes children legally bound to look after their aged parents?’ Express your opinion on this issue.

View:

- Law must step in where values deteriorate
- Elderly population has doubled in the last 25 years
- Protection for the elderly, is a serious concern for the nation
- The experience of the elderly can be fruitful to the younger generation

Q7 A. Expand the following ideas (Any one) (5)

1. The Fruits of Labour are Sweeter than the gifts of Fortune.
2. There's no time like the present.

OR

Q7B. Develop a story based on any one of the above ideas. Give suitable title.

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

Thakur Educational Trust's (Regd)
THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE
I Preliminary Exam 2017 - 2018
Subject: General Mathematics-I

Name: _____ STD: X Div: _____ Roll No: _____

Marks: 40
2hrs

Date: 16/09/2017

Time :

QI) Attempt any 5 sub-questions from the following. (5)

1. The sum of two numbers is 28. Write this information in linear equation form.
2. Transform using sign of variation: '*m varies directly as n*'.
3. If printed price is Rs. 50 and selling price is Rs 45, then find the amount of discount.
4. Check whether the given equation is quadratic equation
5. Write the given quadratic equation in form $ax^2 + bx + c = 0$
 $(x + 4)(x + 1) = 0$
6. Determine whether $x = 5$ and $y = 3$ is the solution of the equation
 $2x + 5y = 25$

QII) Attempt any 4 sub-questions from the following. (8)

1. Check whether $m = 2$ is a root of the given quadratic equation $m^2 - 3m + 2 = 0$
2. If $x \propto y$ and $x = 28$ when $y = 4$, then find constant of variation & equation of variation.
3. Solve the following simultaneous equation by the method of substitution
 $x + 4y = 15$; $5x - 3y = 6$
4. Solve the quadratic equation by factorization method: $y^2 - 11y + 24 = 0$
5. Find M.P, if S.P is Rs. 99 and discount is Rs.11.

QIII) Attempt any 3 sub-questions from the following. (9)

1. Complete the following table if $a \propto x$

a	20	10
b	3	..	6	15

2. An agent sold goods worth Rs.13000 and gave Rs.12350 to his principal. Find the rate of commission of the agent.
3. Solve quadratic equation by formula method: $x^2 - 5x + 10 = 0$
4. Solve the simultaneous equation by equating the coefficient method

QIV) Attempt any 2 sub-questions from the following. (8)

1. Solve the given quadratic equation by completing square method: $4x^2 - 8x + 1 = 0$
2. In a school, cricket tournament was held. Sachin hits only fours and sixes. He scored 112 runs. Numbers of fours were twice the number of sixes. How many fours and sixes did he hit.
3. A dinner set is sold for Rs.1500 cash or for Rs.1000 cash down payment and Rs.545 to be paid in one installment after 6 months. Find the rate of interest charged under installment scheme.

QV) Attempt any 2 sub-questions from the following. (10)

1. x varies jointly as y and z^2 and $x = 18$ when $y = 32$ and $z = 2$. Find the value of x when $y = 2$ and $z = 4$.
2. Perimeter of an isosceles triangle is 13cm. length of each congruent side of a triangle is less than its base by 1 cm. Find the length of the base and each congruent side of a triangle.
3. The sum of the ages of Mandar and his uncle Omkar is 35 years and the product of their ages is 150. Find their ages.

QI) Attempt any 5 sub-questions from the following. (5)

1. $(x+5)(x-2)=0$, find the roots of this quadratic equation.
2. If $\sum f_i x_i = 75$ and $\sum f_i = 15$, then find the mean(x).
3. Find the width of the class 35 – 45.
4. By using two variables, write the following statement in mathematical form: The cost of two tables and five chairs is Rs 2,200.
5. In the quadratic equation $a=3, b=-6, c=-2$. Find the value of $\alpha + \beta$ & $\alpha\beta$.
6. If the value of the determinant

$$\begin{vmatrix} m & 2 \\ -5 & 7 \end{vmatrix} \text{ is } 31, \text{ find } m$$

QII) Attempt any 4 sub-questions from the following (8)

1. Form the quadratic equation if the roots are -3 and -11.
2. Solve the following simultaneous equation by Cramer's Rule:
 $4x + 3y - 4 = 0$; $6x = 8 - 5y$
3. Solve the given quadratic equation by factorization method:
4. Without actually solving the simultaneous equation given below, decide whether the given equation have unique solution, no solution or infinitely many solution:
5. Prepare the cumulative frequency (less than type) table from the following distribution table.

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
Frequency	2	3	7	8	5

QIII) Attempt any 3 sub-questions from the following (9)

1. Find k , if the sum of the roots of the quadratic equation $4x^2 + 8kx + k + 9 = 0$ is equal to their product.
2. A box contains 20 cards marked with the numbers 1 to 20. One card is drawn from this box at random. What is the probability that number on the card is i) a prime number. ii) perfect square. iii) multiple of 5.
3. Find the value of p for which the given simultaneous equation has unique solution: $3x + y = 10$; $9x + py = 23$.
4. Below is given the distribution of money (in Rs.) collected by students for flood relief fund.

Money (in Rs.)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
No. of Students	5	7	5	2	6

Find mean by Assumed Mean Method.

QIV) Attempt any 2 sub-questions from the following (8)

1. Solve the following equation:
2. Solve the following simultaneous equation
;
3. Three horse A, B and C are in race, A is twice as like to win as B and B is twice as like to win as C, what are the probabilities of winning.

Q V) Attempt any 2 sub-questions from the following (10)

1. An express train takes 30 min less for a journey of 440 km, if its usual speed is increased by 8 km/hr. find its usual speed.
2. On the first day of the sale of tickets of a drama, 35 tickets in all were sold. If the rates of the tickets were Rs. 20 and Rs. 40 per ticket and the total collection was Rs.900, find the number of tickets sold of each rate.
3. The following table shows the frequency distribution of body weight (in grms) of fish in a pond.

Body weight (in grms)	15 – 15.9	16 – 16.9	17 – 17.9	18 – 18.9	19 – 19.9	20 – 20.9
No. of fish	2	4	8	6	6	4

Find the Modal weight of fish.

All The Best

Std. : **X**
12/10/2017

Sub. : **GEOMETRY**

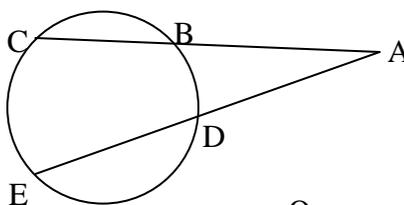
Marks : **40** Date :
Time : **2 hrs.**

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

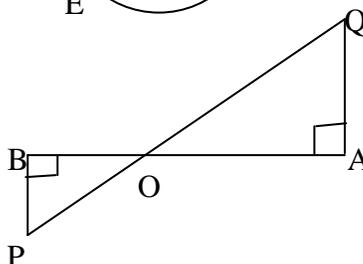
- 1) The ratio of the area of two triangles with equal heights is 3:2. The base of the larger triangle is 18cm. Find the corresponding base of the smaller triangle.
- 2) In ΔRST $\angle S = 90^\circ$. P is the mid point of side RT. If $SP = 4.5\text{cm}$, what is the length of RT?
- 3) The dimensions of a cuboid in cm are $20 \times 18 \times 10$. Find its volume.
- 4) Find the perimeter of an isosceles right angled triangle with each of its Congruent sides are 7cm.
- 5) For the angle in standard position if the initial arm rotates 125° in anti clock wise direction then state in which quadrant terminal arm lies?
- 6) If $F = 12$, $V = 20$, find the value of E, using Euler's Formula.

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

- 1) In the fig secant AC and secant AE intersect in point A. Points of intersections of the circle and secants are B and D respectively. If $CB = 5$, $AB = 7$, $EA = 20$. Find AD.



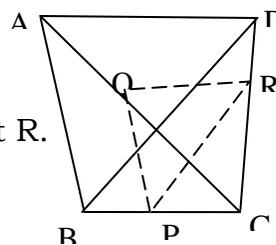
- 2) In fig Seg PB and Seg QA are perpendicular to seg AB. If $PO = 5$ and $QO = 7\text{cm}$, $A(\Delta POB) = 15\text{cm}^2$. Find area of ΔQOA .



- 3) Draw a circle of radius 3.5cm. Take any point K on it. Draw tangent to the circle at K without using centre of the circle.
- 4) If the terminal arm passes through the point (1,1) making an angle θ find the value of $\sec \theta$.
- 5) Find value of $\sin 60^\circ + \cos 30^\circ - \tan 30^\circ \tan 45^\circ + \sin 30^\circ \cos 60^\circ$

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

- 1) Construct a circumcircle of ΔABC . Such that $AB = 5\text{cm}$, $AC = 12\text{cm}$, $\angle BAC = 90^\circ$
- 2) Two triangles ABC and DBC lie on the same side of the base BC. From point P on BC. $PQ \parallel AB$ and $PR \parallel BD$ are drawn. They intersect AC at Q and DC at R. Prove that $QR \parallel AD$.



- 3) Prove that : If a line parallel to a side of a triangle ; intersects the other sides in two distinct points then the line divides those side in proportion.

- 4) If $\sqrt{3} \tan \theta = 3 \sin \theta$, find the value of $\sin^2 \theta - \cos^2 \theta$. Where $\theta \neq 0$.
- 5) A building has 8 right cylindrical pillars whose cross sectional diameter is 1 m and whose height is 4.2m. Find the expenditure to paint these pillars at the rate of ₹ 24 per m^2 .

Q.4 Attempt any 2 of the following [8]

- 1) Prove that : If an angle with its vertex on the circle whose one side touching the circle and the other intersects the circle in two points, then measure of the angle is half of the measure of its intercepted arc.
- 2) Draw a triangle ABC with side $BC = 6\text{cm}$, $\angle B = 45^\circ$ and $\angle A = 100^\circ$, then construct a triangle whose sides are $\frac{4}{7}$ times the corresponding sides of triangle ABC.

3) The volume of a cone of height 5 cm is 753.6 cm^3 . This cone and cylinder have equal radii and height. Find the total surface area of cylinder ($\pi = 3.14$)

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

- 1) Water flows at the rate of 10m per minute through a cylindrical pipe having the diameter is 20mm. How much time will it take to fill a conical vessel of base diameter 40 cm and depth 24 cm.
- 2) A bird was flying in a parallel to the ground from north to south at a height of 2000mts. TOM, Standing in the middle of the field, first observed the bird in the north at an angle of 30° . After 3 minutes, he again observed it in the south at angle of 45° . Find the speed of the bird in Km/hr. ($\sqrt{3} = 1.73$)
- 3) In $\triangle ABC$, $\angle BAC = 90^\circ$ & $AB = AC$, seg $AP \perp$ side BC B-P-C. D is any point on side BC.
Prove that: $2 AD^2 = BD^2 + CD^2$

ALL THE BEST

Q1) A) a) Fill in the blanks

(3)

- 1) The chemical reaction in which oxidation and reduction takes place simultaneously is called _____.
- 2) An optical device used by watch repairs is _____.
- 3) The d-block elements are known as _____ elements.

b) State True Or False and correct the false statement.

(2)

- 1) Power = Work x time.
- 2) Land and soil pollution causes loss of fertility and productivity of soil.

Q1B) Choose the correct alternative and rewrite the statements.

(5)

- 1) The _____ is used to determine potential difference.
a) ammeter b) voltmeter c) rheostat d) galvanometer.
- 2) A given sample solution was found to be pH 7, it is _____.
a) acidic b) neutral c) basic d) strongly basic.
- 3) To increase the effective resistance, the resistors are connected in _____.
a) series b) parallel c) series and parallel d) none of these.
- 4) Which type of mirror is used by a dentist?
a) plane b) Convex c) Concave d) Concavo-convex.
- 5) A substance which is bitter to taste is _____?
a) an acid b) an alkali c) a salt d) none of these.

Q2) Answer the following (any 5)

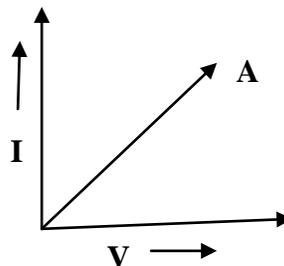
(10)

- 1) Give the use of magnetism in medical sciences.
- 2) Write the molecular formula and give one use for : i) Baking soda ii) washing soda.
- 3) Explain the causes and remedies for Hypermetropia.
- 4) Complete the given reactions. What type of a reaction are they?
i) $\text{HCl} + \text{NaOH} \longrightarrow \text{_____} + \text{_____}$
ii) $2\text{Mg} + \text{O}_2 \longrightarrow \text{_____} + \text{_____}$
- 5) Grills of doors and windows are always painted before they are used.
- 6) Give main features of Newland laws of Octave.

Q3) Answer the following (any 5)

(15)

- 1) Draw a ray diagram of a convex lens when the object is at $2F_1$.
- 2) Give the Demerits of Mendeleev's Periodic table .
- 3) Explain the construction and working of Electric motor.
- 4) What is soil pollution? State its effects.
- 5) Explain pH scale with proper diagram.
- 6) Look at the graph and answer the questions.
i) What is the variation between V and I?
ii) V/I What do we observe.
iii) What is the quantity V/I called?
iv) State the units of V and I.
v) Which law does it represent?



Q4) Attempt the following (any 1)

(5)

- 1) Derive the expression for resistance connected in parallel.
- 2) Define Corrosion .Give any 4 methods to prevent corrosion?

<i>Thakur Educational Trust's (Regd)</i> THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE I Preliminary Exam 2017 - 2018 Subject: Science & Technology II.			
Name: _____	STD: X Div: _____	Roll No: _____	
Marks: 40	Date: 18/9/2017	Time: 2hrs	

Q1) A) a) Fill in the blanks: (2)

- 1) _____ is the largest gland in the body.
- 2) The loss of water from the plants is known as.

B) Match the following: (3)

Column A	Column B
a) Cu and Zn	i) Bronze.
b) Cu and Sn	ii) Zinc amalgam.
c) Hg and Zn	iii) Brass.
	iv) Stainless steel.

Q1B) Choose the correct alternative & rewrite the statement. (5)

- 1) Where does the cellular respiration take place?
a) Chlorophyll b) Mitochondria c) Lysosomes d) Ribosomes.
- 2) Fermentation is a type of _____.
a) endothermic reaction b) aerobic respiration c) anaerobic respiration d) none of these.
- 3) During aerobic respiration _____ molecules of ATP are released.
a) 2 b) 28 c) 38 d) 22.
- 4) _____ is amphoteric in nature.
a) Na₂O b) CaO c) MgO d) Al₂O₃
- 5) During digestion carbohydrates are broken down into _____.
a) glycol b) amino acids c) glucose d) fatty acids.

Q2) Answer the following (any 5) (10)

- 1) Give Reason : Translocation is needed in all higher plants.
- 2) What is the three 'R' mantras? Write its significance.
- 3) Distinguish between Voluntary and Involuntary movements.
- 4) State any two functions of MPCB for prevention of water pollution.
- 5) Breathing rate increases during vigorous exercise.
- 6) Roots of plants grow away from light.

Q3) Answer the following (any 5) (15)

- 1) Explain the Chemical control in animals.
- 2) Explain tropism and tropic movements.
- 3) Explain the structure of Nephron.
- 4) Give the properties of ionic compound.
- 5) What would be the consequences of deficiency of Haemoglobin in the human body?
- 6) Explain the following terms:
i) Thermic Reaction ii) Electroplating iii) Galvanizing

Q4) Attempt the following (any 1) (5)

- 1) Explain the Process of extraction of Aluminium.
- 2) Explain the Nutrition in Human beings.

Thakur Educational Trust's (Regd)
THAKUR VIDYA MANDIR HIGH SCHOOL & JR. COLLEGE
ISO : 9001-2008 CERTIFIED
I Preliminary Exmination 2017-18

कक्षा -दशमी

दिनाङ्कः- 13/09/2017

गुणा : - 80

विषयः- संस्कृतम्

अवधिः - 2.45 होरा

नाम - _____

विभागः _____ कमसंख्या _____

प्रथमः विभागः - गद्यम्

प्रश्न 1. गद्यांशं पठित्वा निर्दिष्टाः कृतीः कुरुत ।

अ.1 अवबोधनम् । (केऽपि 2 कृतीः कुरुत)

2

i. पूर्णवाक्येन उत्तरं लिखत ।

मातामही शिवानीं केन कारणेन स्मरति ?

ii. वाक्यं पुनर्लिखित्वा सत्यं वा असत्यमिति लिखत ।

भरतपुरस्थिते अभयारण्ये वृक्षवासिनः खगाः एव दृश्यन्ते ।

iii. उचितं कारणं चित्वा वाक्यं पुनर्लिखत ।

मनो मे न तृप्तिमायाति । इति मातामही लिखति । यतः

1 तस्यै उद्यानं न रोचते ।

2 तस्याः उद्याने रुचिः प्रतिक्षणं वर्धमाना आसीत् ।

वत्से, अत्र प्राप्ताहं भरतपुरं दिनद्वयात्पूर्वम् । रमणीयं निसर्गरूपं विविधखगैरुत्कृजितमनुभूय मनो मे न तृप्तिमायाति । त्वां चातीव स्मरामि अत्रागत्य, विशेषतः तव पक्षिप्रेम तेषां विषयं कौतूहलञ्च । त्वया ज्ञायत एव यदेतत् केवलदेवराष्ट्रीयोद्यानं पक्षीणामभयारण्यम् । तेषां कृते अत्र विशेषव्यवस्था विशेषा निर्वन्धाश्च कृताः भारतशासनेन ।

एतावद् विशालं वनं द्रष्टुं द्वित्राः दिनाः न पर्याप्ताः यतोऽस्य क्षेत्रं विस्तीर्णं वैविध्यपूर्णं च ।

विविधस्वरूपाणां खगानां कृते विविधप्रकाराणि स्थलानि अत्र निर्मितानि । स्थलपक्षिणां शुष्का तृणस्थली ,

जलविहगार्थं जलस्थली, आनूपं वा स्थलं अपि च वृक्षखगानामधिवासभूताः महावृक्षाः अपि अत्र

विद्यन्ते । नैकाः सारङ्गाराः विविधवर्णैः खगैः आवासार्थमङ्गीकृताः अत्र । वृक्षपक्षिणः, तृणपक्षिणः ,

अपि च जलपक्षिणोऽपि अत्र बहुसंख्यया वसन्ति कीडन्ति च । तित्तिरसदृशाः तृणपक्षिणः कीडन्तः

दृश्यन्ते । वृक्षेषु चित्रबलाकानां कुलानि कलकलं कुर्वन्ति पर्यटकानां चेतांसि हरन्ति । विविधप्रकारकाः

कौञ्चाः तृणेषु भक्ष्यं गवेषमाणाः दूरतः नयनपथमायान्ति ।

अ.2. शब्दज्ञानम् । (काः अपि 3 कृतीः कुरुत)

3

i. चतुर्थपदं लिखत । - दिनाः, पर्याप्ताः । दिनानि

ii. गद्यांशातः पर्यायशब्दान् चित्वा लिखत ।

1 खगाः = । 2 खेलन्ति =

iii. गद्यांशातः विलोमशब्दान् चित्वा लिखत ।

1 समीपतः X । 2 नाशितानि X

iv. नाट्यांशे आगते ल्यबन्त अव्यये लिखत । ।

क.3 स्वमतप्रकटनम् । अभिव्यक्तिः

2

“आधुनिककाले अभयारण्यस्य औचित्यम्”

इत्यस्मिन् विषये 30/40 शब्दपरिमितां माध्यमभाषया लिखत ।

प्रश्न ब 1. गद्यांशं पठित्वा निर्दिष्टाः कृतीः कुरुत ।

ब.1. अवबोधनम् । (केऽपि 2 कृती कुरुत)

2

i. पूर्णवाक्येन उत्तरं लिखत ।

लेरसिया काभ्यां सह कुटीं गतवान् ?

Thakur Educational Trust's (Regd)
THAKUR VIDYAMANDIRHIGH SCHOOL& JR.COLLEGE
I PRELIMINARY EXAMINATION 2017- 2018
Subject : GEOGRAPHY

Name: _____ Std: X Div: _____ Roll No:____
 Marks:40 Date:09/09/2017 Time: 2hrs

Q1A. Fill in the blanks. (3)

1. Area wise ----- is the largest state.
2. About ----- of the total population of Rajasthan State lives in Rajasthan desert.
3. ----- is the leading centre of sport goods.

Q1B Match the column: (3)

A	B
1. Ramdevji	a) Pushkar
2. Tejaji	b) Tilwara
3. Mallinath	c) Parbatsar
	d) Manasar

Q2A Give geographical reasons – Any 2 (4)

1. Himalayan region receives heavy precipitation on the Indian side but the conditions are arid in Tibet.
2. Soil in Punjab region is becoming saline.
3. The Ganga Delta is also called “The Green Delta”. (4)

Q2B Write short notes on – Any 2

1. Arabian Sea island.
2. Irrigation in Central Karnataka Plain .
3. Camel Safari

Q3A Draw a bar graph with the help of the following data. (2)

Sugar Production in India

Year	Production (Lakh tones)
2000 - 01	95
2001 - 02	130
2002 - 03	180
2003 - 04	160
2004 - 05	125

Q3B Read the map and answer the following questions. (2)

Questions:

1. Name the important mountain ranges in the Northern part.
2. Name three plateaus in peninsular region.
3. What is the general direction of the slope.
4. Name the major rivers of the plateau region.

Q3 C Mark the following on the outline map of India. (2)

1. Palk Strait
2. Sikkim Himalaya
3. Sunderban
4. Aravalli Hills

Q4. Answer in brief – Any 2 (8)

1. What are the characteristics of agriculture in Central Highland of India?
2. Describe the industrial development of Punjab and Haryana.
3. Write in detail about the climate of Deccan Plateau.

ECONOMICS

Q5. Fill in the blanks. (2)

1. Tertiary sector is also known as -----.
2. Inflation is ----- economic concept.

Q6. Answer in one or two sentences - Any 3 (6)

1. How does inflation affect moral values?
2. What is bank rate?
3. Explain the problem what to produce?
4. What is labour intensive technique?
5. Explain specific Geographical Area.

Q7. Answer in brief – Any 1

(4)

1. Write any five factors responsible for increase in demand for goods and services.
2. Explain the effects of inflation on distribution.

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

Thakur Educational Trust's (Regd)
THAKUR VIDYA MANDIR HIGH SCHOOL & JR.COLLEGE
I Preliminary Exam. 2017- 2018
Subject: History/ Political Science.

Name: _____ STD: X Div: _____ Roll No: _____

Marks: 40

Date: 15/09/2017

Time: 2hrs.

Q1 A) Complete the following by statements choosing the correct alternative from the brackets. (3)

- 1) Under the leadership of _____ Dharasana Satyagraha took place.(Sarojini Naidu, Kasturba Gandhi, Madam Cama)
- 2) Trygve Lie of _____ was elected as the first secretary of the UNO. (Norway, Rome, France)
- 3) The European traders in China established an organization named _____ (Cohong, Peking, Nanking).

B) Match the columns (3)

A

B

- | | |
|---------------------|----------------------|
| 1) Bartholomew Dias | a) German Thinker |
| 2) Jomo Kenyatta | b) Portuguese Sailor |
| 3) Karl Marx | c) French Thinker |
| | d) Kenya |

Q2) Answer the following in 25 to 30 words (any-2) (4)

- 1) Write about the foreign policy of Bismarck.
- 2) What is economic imperialism?
- 3) Write the revolutionary activity of India during its freedom struggle.

Q3) Give Reasons for the following in 25-30 words (any -2) (4)

- 1) All round development of Russia did not take place.
- 2) On 6th April 1917 America declared war against Germany.
- 3) The League of Nations was unable to stop the warring countries.

Q4) Answer in 30- 40 words (any-2) (6)

- 1) Write any three destructive effects of imperialism (Africa)?
- 2) Write the functions of the Secretary General of United Nations Organization.
- 3) How did the new middle class react to the process of decolonization?

Q 5) Answer the following in 60-80 words (any -2) (8)

- 1) Write about Nanking treaty.
- 2) Write the information about the Independence Movement with reference to:
a) Quit India Movement.
b) The Azad Hind Sena.
- 3) Write the effects of the First World War.

Q6) Fill in the blanks in the given statements choosing the suitable alternative from the given brackets: (3)

- 1) Indian National Congress was established in _____. (1885, 1985, 1857 , 1991)
- 2) The claim that we are superior to others creates _____. (equality, conflict, inequality, mutual understanding)
- 3) In Australia amendment to constitution is brought by _____ > (plebiscite, referendum, recall, initiative)

Q7) Answer the following questions in one sentence each (any three) (3)

- 1) When is referendum adopted?
- 2) State any one difference between ruling party and the opposition party?
- 3) Who undertook efforts to abolish the caste system in India?
- 4) Name any two religions existing in India?
- 5) State any two party systems.

Q8) State giving reasons if the following statements are True or False (any-2) (4)

- 1) Caste system is like a hierarchy.
- 2) When two or more than two parties come together and form government it is called two party system.
- 3) Holding elections is a necessary condition for existence of democracy.

Q9) Answer the following questions in 25 to 30 words (any-1) (2)

- 1) What measures are adopted in a democracy in order to handle caste discrimination and inequality arising out of it?

2) 'People feel affiliated with political parties'. Explain.

**** **ALLTHE BEst**

Thakur Educational Trust's (Regd.)

Thakur Vidya Mandir High School & Junior College

Re - Exam 2017-2018

Std. : **X**
12/10/2017

Sub. : **GEOMETRY**

Marks : **40** Date :
Time : 2 hrs.

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

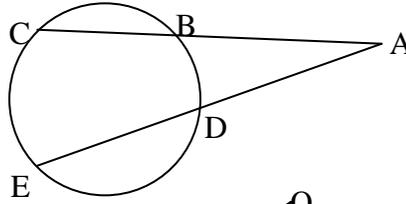
- 1) The ratio of the area of two triangles with equal heights is 3:2. The base of the larger triangle is 18cm. Find the corresponding base of the smaller triangle.
- 2) In $\triangle S = 90^\circ$, P is the mid point of side RT. If SP = 4.5cm, what is the length of RT?
- 3) The dimensions of a cuboid in cm are $20 \times 18 \times 10$. Find its volume.
- 4) Find the perimeter of an isosceles right angled triangle with each of its

Congruent sides are 7cm.

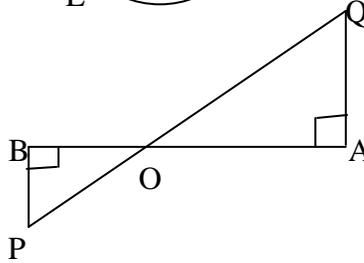
- 5) For the angle is standard position if the initial arm rotates 125 in anti clock wise direction then state in which quadrant terminal arm lies?
- 6) If $F= 12$, $V= 20$, find the value of E , using Euler's Formula.

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

- 1) In the fig secant AC and secant AE intersect in point A. Points of intersections of the circle and secants are B and D respectively. If $CB = 5$, $AB = 7$, $EA = 20$. Find AD.



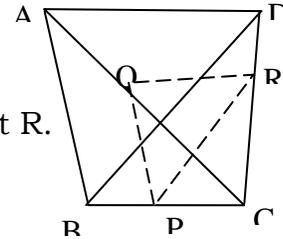
- 2) In fig Seg PB and Seg QA are perpendicular to seg AB. If $PO = 5$ and $QO = 7$ cm, Find area of



- 3) Draw a circle of radius 3.5cm. Take any point K on it. Draw tangent to the circle at K without using centre of the circle.
- 4) If the terminal arm passes through the point (1,1) making an angle find the value of sec .
- 5) Find value of $\sin 60^\circ + \cos 30^\circ - \tan 30^\circ \tan 45^\circ + \sin 30^\circ \cos 60^\circ$

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

- 2) Construct a circumcircle of Such that $AB = 5$ cm, $AC = 12$ cm, $\angle BAC = 90^\circ$
- 2) Two triangles ABC and DBC lie on the same side of the base BC. From point P on BC. $PQ \parallel AB$ and $PR \parallel BD$ are drawn. They intersect AC at Q and DC at R. Prove that $QR \parallel AD$.



- 3) Prove that : If a line parallel to a side of a triangle ; intersects the other sides in two distinct points then the line divides those side in proportion.
- 4) If . Where
- 5) A building has 8 right cylindrical pillars whose cross sectional diameter is 1 m and whose height is 4.2m. Find the expenditure to paint these pillars at the rate of ₹ 24 per

Q.4 Attempt any 2 of the following [8]

- 1) Prove that : If an angle with its vertex on the circle whose one side touching the circle and the other intersects the circle in two points, then measure of the angle is half of the measure of its intercepted arc.
- 2) Draw a triangle ABC with side $BC = 6$ cm, $\angle B = 45^\circ$ and $\angle A = 100^\circ$, then construct a triangle whose sides are times the corresponding sides of triangle ABC.
- 3) The volume of a cone of height 5 cm is 753.6 cm^3 . This cone and cylinder have equal radii and height . Find the total surface area of cylinder ($\pi = 3.14$)

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

- 1) Water flows at the rate of 10m per minute through a cylindrical pipe having the diameter is 20mm. How much time will it take to fill a conical vessel of base diameter 40 cm and depth 24 cm.
- 2) A bird was flying in a parallel to the ground from north to south at a height of 2000mts. TOM, Standing in the middle of the field, first observed the bird in the north at an angle of 30° . After 3 minutes, he again observed it in the south at angle of 45° . Find the speed of the bird in Km/hr. ($\sqrt{3} = 1.73$)
- 3) In $\triangle ABC$, $\angle BAC = 90^\circ$ & $AB = AC$, seg $AP \perp$ side BC B-P-C. D is any point on side BC. Prove that: $2 AD^2 = BD^2 + CD^2$

ALL THE BEST
