Little Rose Academy High School Model Town HOLIDAYS HOMEWORK CLASS - 10th



Have a great SUMMER VACATION

Human eye and colorful world

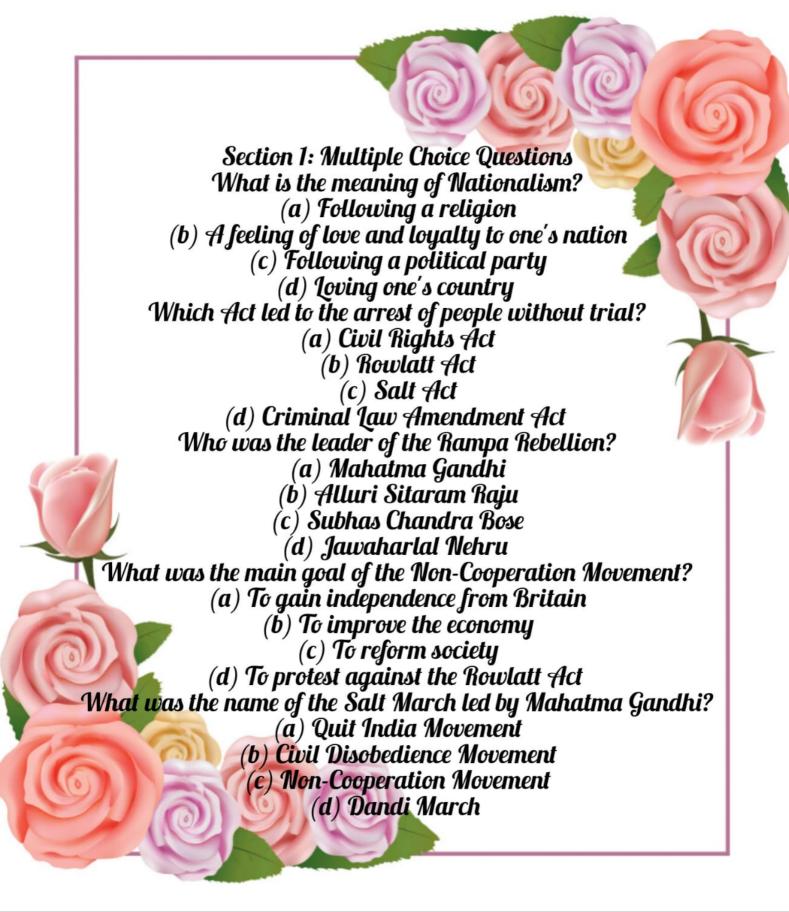
Class: X

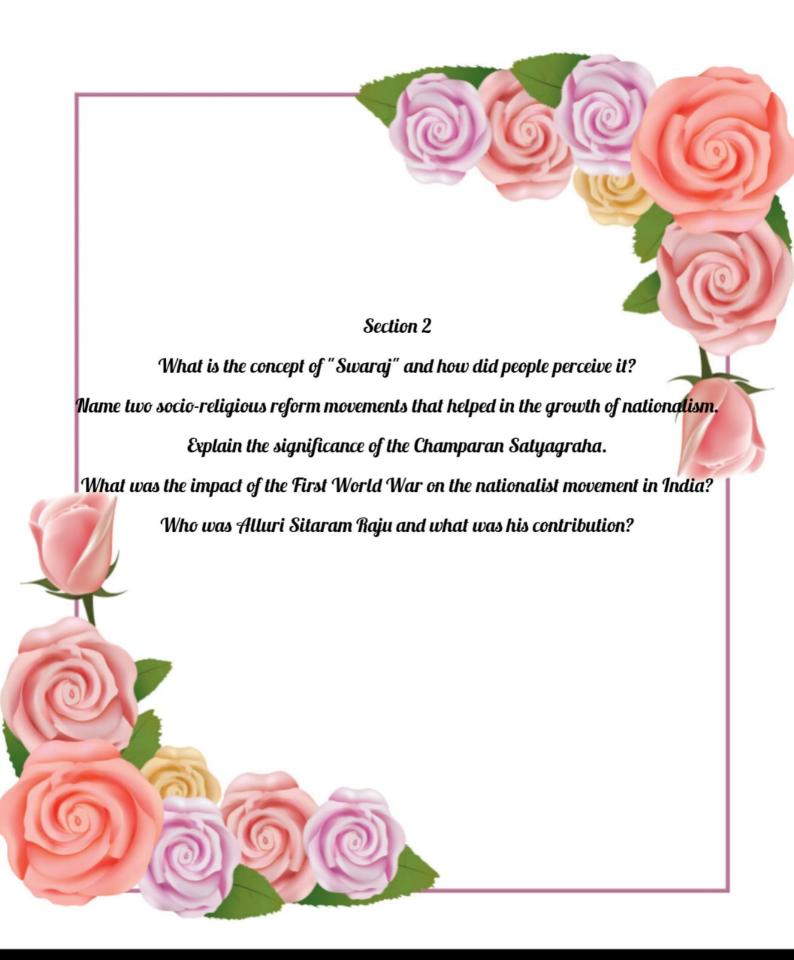
- 1. Which part of human eye helps in the perception of colors?
- 2. Explain clearly the working of a human eye?
- 3. How does an eye focus the objects lying at various distances?
- 4. State one function of Iris in human eye.
- 5. State one function of pupil in human eye.
- State one function Of culinary muscles in human eye.
- 7. State one function of crystalline lens in the human eye.
- 8. State two properties of the image formed by the eye lens.
- 9. State one function of cornea in human eye.
- 10. What is meant by the term 'power of accommodation 'of human eye?
- Draw a labelled diagram of the structure of a human eye.
- * Prepare a model of *Human Digestive system and Human Heart*

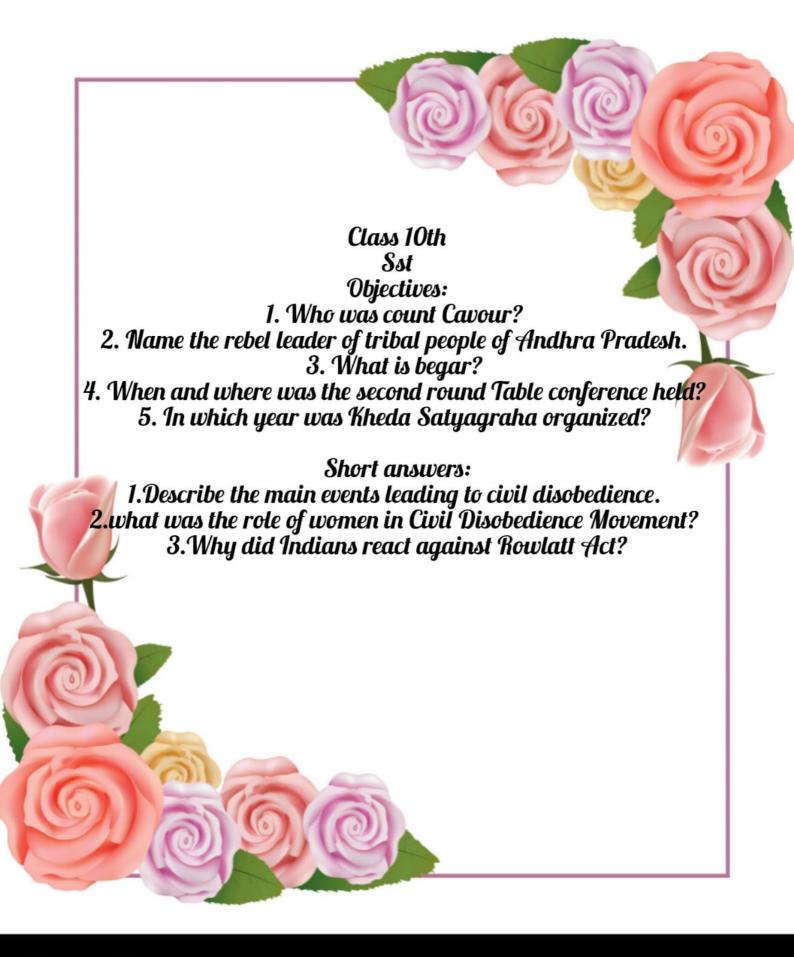
S (TRIGONOMETRY)

CLASS: X : MATHEMATICS

- 1. Simplify: cos4 A sin4A
- 2. If ΔABC is right angled at C, then find the value of cos(A + B).
- 3. If sin A+ cosA = √2 cosA, then find the value of tan A.
- 4. If 5 tan θ = 4, then find the value of $\frac{5\sin\theta 3\cos\theta}{5\sin\theta + 2\cos\theta}$
- 5. If 4 tan $\theta = 3$, then find the value of $\frac{4\sin\theta \cos\theta}{4\sin\theta + \cos\theta}$
- 6. If cosec A = 13/12, then find the value of $\frac{2\sin A 3\cos A}{4\sin A 9\cos A}$
- In ΔABC, right angled at B, AB = 5 cm and sin C = 1/2. Determine the length of side AC.
- 8. In ΔABC, right-angled at C, if tan A=1, then find the value of 2sin A cos A.
- 9. If for some angle θ , cot $2\theta = \frac{1}{\sqrt{3}}$, then find the value of $\sin 3\theta$, where $3\theta \le 90^\circ$.
- 10. If $\tan \theta = 1$, then find the value of $\sec \theta + \csc \theta$.
- 11. If θ is an acute angle and $\tan \theta + \cot \theta = 2$, then find the value of $\sin^3 \theta + \cos^3 \theta$.
- 12. In \triangle ABC right angled at B, $\sin A = \frac{7}{25}$, then find the value of $\cos C$.
- 13. Find the value of (sin 45" + cos 45").
- **14.** Given that $\sin \theta = \frac{m}{n}$ then find $\cos \theta$.
- 15. If $\cos A = \frac{4}{5}$, then find the value of $\tan A$.
- 16. In ∆ABC right angled at B, if tanA = √3, then find the value of cosA cosC sinAsinC.
- 17. If $2\sin^2 \beta \cos^2 \beta = 2$, then find β .
- 18. If $\sqrt{3} \tan \theta = 1$, then find the value of $\sin^2 \theta \cos^2 \theta$.
- 19. In a right triangle ABC, right-angled at B, if tan A = 1, verify that 2 sin A cos A = 1.
- 20. If $\sin 2A = \frac{1}{2} \tan^2 45^\circ$ where A is an acute angle, then find the value of A.
- 21. If $\sec A = 15/7$ and $A + B = 90^\circ$, find the value of $\csc B$.
- 22. Find A and B, if $\sin (A + 2B) = \sqrt{3}/2$ and $\cos (A + B) = 1/2$.
- 23. If (1 + cos A) (1 cos A) = 3/4, find the value of tan A.
- 24. Evaluate: 3 cos2 60° sec2 30° 2 sin2 30° tan2 60°.







ENGLISH

Q3. Write an informal letter to your friend Rudra inviting him to spend the summer vacation at your place in Jammu. You are Sakshi/ Saksham. Do not exceed 120–150 words. You are Sakshi/ Saksham. Do not exceed 120–150 words

Q4. Choose the correct form of the verb that agrees with the subject.

- · Annie and her brothers (is, are) at school.
- Either my mother or my father (is, are) coming to the meeting.
- The dog or the cats (is, are) outside.
- Either my shoes or your coat (is, are) always on the floor.
- George and Tamara (doesn't, don't) want to see that movie.
- Benito (doesn't, don't) know the answer.
- One of my sisters (is, are) going on a trip to France.
- The man with all the birds (live, lives) on my street.

Q5. Inter-debate Competition of XYZ school was to be held on 1st August 2024
Which has been postponed due to unavoidable circumstances. Draft a notice for the
School Notice Board to inform participants about the change in 50 words.

Q6. Insert 'a', 'an' or 'the' wherever necessary:

a)I did not enjoy dinner he gave me.

b)They were first to reach station.

c)Sooner it is done, better it will be.

d)I met him year ago at home of richest man of town.

e)Black and white cow is for sale.

f)Child was looking at pictures when there was a knock at the door.

Q7. Define message writing and write the format of message writing.

Q8. Punctuate the following passage.

One day walking together up a hill I said to Friday do you not wish yourself in your own country again yes he said what would you do there said I would you turn wild and eat mens flesh again he looked full of concern and shaking his head said no.

Q9. your grandfather is very upset about the rising prices and keeps thinking of his olden times when things were very cheap. You are convinced that inflation has made life difficult for common man. Write a letter in 100–120 words to the editor of a national daily describing the difficulties faced by poor families.

10. Write a paragraph on" The Importance of Time Management.

ENGLISH

Q1:- Sketch the character of 'MATILDA' with a special reference to, "Beti Bachao Beti Padhao" Q2:- Would you suggest some other ending to THE PROPOSAL? If yes What .if no Why? Q3 :- Write briefly about the humorous situations in 'An Excellent Father'. Q4:- " A lawless scientist is a curse to society". Discuss. (Footprints without feet) Q5:-Give a brief sketch of Anne's life. (From the diary of young girl) Q6:-How is the 'non-serious attitude of youngsters towards marriage 'one of the major themes of the play ," The Proposal ? Poetry skills Q1:- Read the extract and answer the following questions Belinda was as brave as a barrel full of beard, And Ink and Blink chased lions down the stairs, Mustard was as brave as a tiger in a rage, But Custard cried for a nice safe cage. Belinda tickled him, she tickled him unmerciful, Ink, Blink and Mustard, they rudely called him Percival, They all sat laughing in the little red wagon At the realio, trulio, cowardly dragon. QUESTIONS: Name the poetic devices used in the above stanga. •Why did custard cry for a nice safe cage? • "Belinda tickled him, she tickled him unmerciful..." "Why? •What is meant by the word "Percival" in the given extract? Q2:-Identify the poetic devices in the below lines and explain it. But one man loved the pilgrim soul in you And loved the sorrows of your changing face: Q3:— Write down the summary and central idea of the poem 'Miracles'. Q4:-Comment on the poetic devices in the poem 'When you are old' Q5:- Write ten examples of Metaphor and Simile used in the poems of your textbook 'Tulip series book 'The examples should be from those poems which you have studied in the classroom. Q6 :- comment on the images used in the poem 'Prayer'. Grammar writing skills Q1. Rewrite the following passage changing the form of speech. "What were you doing? "said he to me. I said," I was doing my assignment." You should play in the afternoon. It will keep you fit." "Thank you for your advice." Q2. Complete the following dialogues with Modals. _(A- May/Shall)I borrow these four books, please. OMr. Sharma: Students ____ (B - will/can) only borrow two books at a time. Library rules. Maya: ___ (C- will/could) you please let me borrow just one more? 1 (D — must /have to) submit my assignment next week. I promise to return them all on time. OMr. Sharma: Hmm... Well, in this case, you ____ (E- can / should) take one more as long as you're very careful with them.

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HINDI

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प्रश्न । वस्तुनिष्ठ प्रश्न पाठ - कैकेयी का अनुताप

पाठ - पर्वत प्रदेश में पावस

(प्रत्येक पाठ में से दस-दस लघु प्रश्नोत्तर लिखिए।)

प्रश्न 2 व्याकरण

क) मुहावरे (20)

ख) पर्यायवाची शब्द (20)

ग) वाक्यांश (२०)

घ) अनेकार्थी शब्द (20)

ङ) विलोम शब्द (20)

नोट:- लिखें तथा याद करें।

प्रश्न 3 निबंध - 1) विज्ञान के एक नवीनतम देन

2) विद्यार्थी और अनुशासन

प्रश्न 4 पत्र लेखन:- पारिवारिक पत्र (कोई दो लिखें।)

प्रश्न 5 परियोजना कार्य :- वर्तमान समय में पर्यावरण के सामने अनेक बड़ी चुनौतियां क्या है और उनका समाधान करने में आप विद्यार्थी कैसे अपना योगदान दे सकते हैं इसको चार्ट पर चित्र के माध्यम से दर्शाते हुए अपने विचार

व्यक्त कीजिए।





