TARAN'S PUBLIC SCAO

CAMBRIDGE LAYOUT, BANGALORE - 560008

CHRISTMAS HOLIDAY HOME WORK

IX STD

Christmas Holidays commences from 24th December,2020.School reopens on 4th January 2021.Please return the HOLIDAY HOMEWORK notebook duly completed to the class teacher on 04.01.2021

Name of the student : _	

New year, New beginnings

- → A bad habit I am going to break:
- A new skill I would like to learn:
- → A person I would hope to be more like;
- → A good deed I am going to do:
- → A place I would like to visit:
- → A book I would like to read:
- → A letter I am going to write;
- → A new food I would like to try:
- → This year ,I am going to be better at?
- → A person I would like to thank:
- A lesson I learnt in 2020:
- → The best part of last year was:

CHARAN'S PUBLIC SCHOOL - STD-9 ENGLISH - CHRISTMAS HOLIDAY H. W

- 1 You were a member of your school quiz team which won the CBSE Quiz contest at the National level. Draft a report about it to be published in your school magazine in about 125 words.
- 2 Write an article in about 200 words on the growing influence of the media of the youth. Discuss only one of the media, deli eating it's positive and negative effects.
- 3 write a letter to the Editor of a leading daily highlighting the problems faced in communication during the peak hors, by the office goers and students. Give suitable suggestions to solve the problem.
- 4 Write an essay on Demonitization.
- 5 What is an aadhar card?
- 6 Where is it being used?
- 7 why is the Aadhar projects validity being challenged in the Supreme Court?
- 8 What to you think are the merits and demerits of the aadhar card project? Creative writing:
- 9 What would you do if you found out, you had the magic powers?
- 10 Give yourself an hour just to sit outside with no electronics. Listen to all sounds around you write about the sound.
- 11 Do you crave adventure or attention? Why or why not?
- 12 Write about something that you find challenging why is it hard? What could you do to improve?

- l. ಗಾದ ವಿಸ್ತರಿಸಿ :
- 1) ಹಾಸಿಗೆ ಇದ್ದಷ್ಟು ಕಾಲು ಚಾಚು
- 2) ತಾಳಿದವನು ಬಾಳಿಯಾನು
- II. ನಿಮ್ಮನ್ನು ರಾಜಾಜಿನಗರದ ಸರ್ಕಾರಿ ಪ್ರೌಢಶಾಲೆಯ ವಿದ್ಯಾರ್ಥಿ 'ಮಹೇಶ್' ಎಂದು ಭಾವಿಸಿಕೊಂಡು ನಿಮ್ಮ ಶಾಲೆಯ ವಾರ್ಷಿಕೋತ್ಸವದ ವರದಿಯನ್ನು ಪ್ರಕಟಿಸುವಂತೆ ಕೋರಿ 'ಪ್ರಜಾವಾಣಿ' ದಿನಪತ್ರಿಕೆಯ ಸಂಪಾದಕರಿಗೆ ಪತ್ರ ಬರೆಯಿರಿ.
- III. ರಾಷ್ಟ್ರೀಯ ಹಬ್ಬಗಳು ಈ ವಿಷಯಕ್ಕೆ 10-15 ವಾಕ್ಯಗಳಲ್ಲಿ ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

CHARAN'S PUBLIC SCHOOL

STD-IX

MATHEMATICS

1.Quadratic equations

1. Check whether the following are quadratic equations:

(i)
$$(x + 1)^2 = 2(x - 3)$$

(ii)
$$x^2 - 2x = (-2)(3 - x)$$

(iii)
$$(x-2)(x+1) = (x-1)(x+3)$$

(iv)
$$(x-3)(2x+1) = x(x+5)$$

2. Find the roots of the following quadratic equations by factorisation:

(i)
$$x^2 - 3x - 10 = 0$$
 (ii) $2x^2 + x - 6 = 0$

- 3. Find two consecutive positive integers, sum of whose squares is 365.
- 4. Find two numbers whose sum is 27 and product is 182.
- 5. Find the roots of the following quadratic equations by formula method.

(ii)
$$2x^2 + x - 4 = 0$$
 (ii) $3x^2 - 8x + 5 = 0$

- 6. Solve $\frac{1}{x+4} \frac{1}{x-7} = \frac{11}{30}$
- 7. The difference of squares of two numbers is 180. The square of the smaller Number is 8 times the larger number. Find the two numbers.
- 8. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train
- 9. Find the nature of the roots of the following quadratic equations. If the real roots exist, find them: (i) $2x^2 3x + 5 = 0$ (ii) $3x^2 4x + 4 = 0$ (iii) $2x^2 6x + 3 = 0$
- 10. Find the values of k for each of the following quadratic equations, so that they have two equal roots. (i) $2x^2 + kx + 3 = 0$ (ii) kx(x-2) + 6 = 0
- 11.Define quadratic equation and write its standard form with example.
- 12, write the summary which is given in end of the chapter.

2. Trigonometry

- 1. If Sin A = 3/4, Calculate cos A and tan A.
- 2.If tan (A + B) = $\sqrt{3}$ and tan (A − B) = $1/\sqrt{3}$, 0° < A + B ≤ 90°; A > B, find A and B.
- 3.If $\tan 2A = \cot (A 18^\circ)$, where 2A is an acute angle, find the value of A.

- $4.\sqrt{1 + \sin A} = \sec A + \tan A$.
- $5.(1 + \tan^2 A/1 + \cot^2 A) = (1 \tan A/1 \cot A)^2 = \tan^2 A.$
- 6. Given sec $\theta = 13 / 12$ calculate all other trigonometric ratios.
- 7. Evaluate the following : (i) $\sin 60^\circ \cos 30^\circ + \sin 30^\circ \cos 60^\circ$ (ii) $2 \tan^2 45^\circ + \cos^2 30^\circ \sin^2 60^\circ$
- 8. Evaluate: (i) sin 18°/ cos 72° (ii) cos 48° sin 42°
- 9. If $\tan 2A = \cot (A 18^{\circ})$, where 2A is an acute angle, find the value of A.
- 10. $(\sin A + \csc A)^2 + (\cos A + \sec A)^2 = 7 + \tan^2 A + \cot^2 A$
- 11. Write all 3 trigonometric identities.
- 12. Write the summary which is given in end of the chapter.

SCIENCE CHRISTMAS HOLIDAY HOMEWORK

PHYSICS: 1. Make a working model of biogas plant.

2. Make a model of solar cooker and solar cell panel

Chemistry: 1. Balance the following equations

- a. $HNO_3 + Ca (OH)_2 \rightarrow Ca (NO_3)_2 + H_2O$
- b. NaOH + H₂SO₄ → Na₂SO₄ + H₂O
- c. NaCl + AgNO₃ → AgCl + NaNO₃
- d. BaCl₂ + H₂SO₄ → BaSO₄ + HCl
- 2. Write the balanced chemical equations:
 - a. Calcium hydroxide + carbon dioxide → calcium carbonate + water
 - b. Zinc + silver nitrate → Zinc nitrate + silver
 - c. Aluminum + copper chloride → Aluminum chloride + copper
 - d. Barium chloride + potassium sulphate → Barium sulphate + potassium chloride

Biology: 1. Make a model of longitudinal section of flower and germination of pollen grains on stigma.

Social-Science

<u>History-</u> Collect pictures of the famous freedom fighters (any 5) and make a chart with interesting information about them. (Also write their famous slogan)

<u>Geography-</u>collect information about anu onr means of communication and give advantages and disadvantages regarding it. (In Notebook)

CHARAN'S PUBLIC SCHOOL

MOCK TEST ENGLISH LITERATURE NAME: STD-IX PART-A MAX.MARKS:25 I Multiple choice questions: (4) 1 I can't very well be seen carrying an eel pie through the streets of Paris can I? Says Gaultier. This shows that He is (a)lazy (b) wise (c) too conscious and proud of his position (d)active. 2 Buttoo says All that I have all I conquer by my skill, gladly shall I do thee sign" This shows Bottoo's (a)reverence to Drona (b) generosity (c) gratitude (d) foolishness 3 Who opens the door when Jean goes to get the tart? (a)Gaultier (b) Marion (c) Mayor (d) Pierre 4 On Which Mahabharatha Character is the Poem "Butoo" based? (a)Ekalavya (b)karna (c) Arjuna (d) Bhishma II Quote from memory: (3)

I was angry	
	end

III Answer the following in two or three sentences: 2x5=10

- 6 What is the success story of Pepsi and Coca -Cola?
- 7 How was Marion going to identify Gaultier's messenger?
- 8 What thrills the present day Indian shoppers?
- 9 Why did Buttoo revere Drona as his Master?
- 10 Why was Pierre pinched? How did he defend himself before Jugdge Gaston?

IV write a letter to your friend expressing about interschool sports meet held in your school? (CPL)

V Reference to context:

- 12 The severed thumb was on the sod. There was no tear in Buttoo's eye.
- (a) Why was the thumb severed?
- (b) why was there no tear in Buttoo's eye?
- (c) What does it tell you about Buttoo?

PART-B

VI Match the meanings:

sl	Word	Meaning
11	Bewildering	Arrested
12	Impoverishme nt	Manufacturers and suppliers
13	Pinched	Magic
14	Strife	Trouble
15	Revere	puzzling
16	Wretched	opened
17	Undone	Respect
18	Purveyors	Miserable

VII Answer the following questions in five- six sentences:3X4=12

- 19 Man today is an unstoppable buying machine. Elucidate with example?
- 20 How are Jean and Pierre similar?
- 21 Write the summary of the poem"C.L.M"?
- 22 Write a short note on the views expressed by the writer on the tragic comedy Of development?

VIII Write an essay on the topic: Social media (5)

IX Read the following carefully and answer the following? (4)

George Washington was the first President of the United States of America. He was born over two hundred years ago in the state of Virginia on February 22. When George was a boy, he had lots of fun exploring the Woods and forests near his home.

He enjoyed hunting, boating, and fishing. He lived on a Farm and helped His father with the chores that needed to be done. George went to school Until he was 14 year old .His favourite subject was Mathematics. George Was good, quiet boy who got along well with others.

George grew up to be a tall and strong man. He joined the military. He was a great leader and helped with many battles. He is best remembered as a revolutionary was against Geat Britain for independence.

- 23 What did George enjoy doing?
- 24 Why is George best remembered?
- 25 How did he help the Americans?
- 26 Young George was fun exploring. How?

[5]

MOCK TEST

ಕನ್ನಡ [II LANGUAGE] PART-A

ಬಹು ಆಯ್ಕೆಯ ಪ್ರಶ್ನೆಗಳು.	[4]
1] ವರ್ಷಗಳಿಂದ'ಪದವು ಈ ವಿಭಕ್ತಿಯಲ್ಲಿದೆ.	
1] ಪ್ರಥಮ 2] ತೃತೀಯ 3] ಚತುರ್ಥಿ 4] ಪಂಚಮಿ	
2] ಗಿಡ, ಮರ, ಬೆಟ್ಡ'ಪದಗಳು ನಮಸೂಚಕದ ಈ ಗುಂಪಿಗೆ ಸೇರುತ್ತದೆ	
1] ರೂಧನಾಮ 2] ಭಾವನಾಮ 3] ಅಂಕಿತನಾಮ 4] ಸರ್ವನಾಮ	
3] 'ಸಿರಿ'ಪದ ಸಂಸ್ಕೃತ ಪದ	
1]ಸಂಪದ 2] ಐಶ್ವರ್ಯ 3] ಲಕ್ಷ್ಮಿ 4] ಶ್ರೀ	
4] 'ಮಹೇಶ'ಇಲ್ಲಿರುವ ಸಂಧಿ	
1] ಆಗಮ 2] ಲೋಪ 3] ಆದೇಶ ೪] ಗುಣ	
ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ. [4]	
5] ಶ್ರೇಷ್ಟ ಗುರುವಿನಲ್ಲಿ ಎಂತಹ ಶಕ್ತಿ ಇರುತ್ತದೆ ?	
6] ಗೋಪಾಲನ ಗೆಳೆಯರ ಹೆಸರೇನು?	
7] ಸುರರ ಸತಿಯರ ಸ್ಥಾನವನ್ನು ಯಾರು ತುಂಬುತ್ತಾರೆ?	
8] ಧನವಿದ್ದವರಲ್ಲಿ ಇರಬೇಕಾದ ಗುಣ ಯಾವುದು?	
ಸಂದರ್ಭ ವಿವರಿಸಿ:	[9]
9] ನನ್ನ ಕಾಫಿ ಕೂಡ ಚೆನಾಗಿರುತ್ತದೆ.	
10] ಅಮ್ಮನ ಮಾತು ಸುಳ್ಳಾಗಲಾರದು	
11] ನೀರ ಕಂಡಲಿ ಮುಳುಗುವರಯ್ಯ.	
ಈ ಕವಿಯ ಕಾಲ, ಸ್ಥಳ, ಕೃತಿಗಳು ಮತ್ತು ಪ್ರಶಸ್ತಿಗಳನ್ನು ಬರೆಯಿರಿ: [3]	
12] ಗುರುರಾಜ ಕರ್ಜಗಿ	

13] ನಿಮಗೆ ಅವಶ್ಯವಿರುವ ಪುಸ್ತಕಗಳನ್ನು ಕಳುಹಿಸಿಕೊಡುವಂತೆ ಕೋರಿ ಸ್ವಪ್ನ ಬುಕ್ ಹೌಸ್, ಬೆಂಗಳೂರು ಇವರಿಗೆ ಪತ್ರ ಬರೆಯಿರಿ.

PART B

ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಮೂರು- ನಾಲ್ಕು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ:

2X4=8

- 14] ಹೆಡ್ ಮಾಸ್ತರರು ತಂದಿಟ್ಟ ಟ್ರೇನಲ್ಲಿ ಯಾವ ತರಹದ ಕಪ್ಪುಗಳಿದ್ದವು?
- 15] ರೂಪಿದ್ದು ಫಲವಿಲ್ಲ– ಈ ಮಾತಿನ ವೈಶಿಷ್ಟ್ಯವೇನು?
- 16] ಬಸವಣ್ಣನವರು ಯಾವ ಧಾರ್ಮಿಕ ಜೀವನವನ್ನು ಕಂಡಿಸಿದ್ದಾರೆ?
- 17] ಶತ್ರು ಭಲಕೆ 'ನಮೋ'ಎಂದು ಏಕೆ ಉತ್ತರನು ಹೇಳಿದನು?

ಈ ಪದ್ಯವನ್ನು ಪೂರ್ಣಗೊಳಿಸಿ: [4]

18] ನೀರ ಕಂಡಲಿ______ ಕೂಡಲಸಂಗಮದೇವ.

ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಎಂಟು-ಹತ್ತು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ: [4]

19] ಗೋಪಾಲನೂ ಹೂಬಣದ ಸೊಗಸನ್ನು ಯಾವ ರೀತಿ ವರ್ಣಿಸಿದನು?

21] 'ಹವ್ಯಾಸಗಳು- ಬಗ್ಗೆ ಕುರಿತು 8-10 ವಾಕ್ಯದಲ್ಲಿ ಒಂದು ಪ್ರಬಂಧ ಬರೆಯಿರಿ:

[5]

ಗಾದೆ ವಿಸ್ತರಿಸಿ: [4]

21] ತಾಳಿದವನು ಬಳಿಯಾನ

CHARANS PUBLIC SCHOOL

STD- IX MOCK TEST

MATHEMATICS

PART-A

MARKS:25

I.CHOOSE THE CORRECT ANSWER:	5X1=5
1.The discriminant of 2x ² +4x+5=0 is a) 24 b) -24 c) 0 d) -½	
2.If the discriminant of the quadratic b2-4ac the	n the roots
a) Two distinct real roots b) equal real roo	ts c) No real roots d) none of the above
3.Sin(90°-A) is	
a) Cos A b) Tan A c) Cot A d) Sec A	
4.The value of Cosec 60° is	
a) $\frac{1}{2}$ b) 2 c) $\frac{2}{\sqrt{3}}$ d) $\frac{\sqrt{3}}{2}$	
5.The value of Sin45°-cos45° is	
a) 0 b) 1 c) 2 d) √2	
II. ANSWER THE FOLLOWING QUESTION:	4X1=4
6.If Cos A= 5/13 then find Sec A	
7.Evaluate Sin 18°/ Cos 72°	
8.Define quadratic equation and write it's standa 9.Write all 3 conditions of discriminant of roots.	
III. ANSWER THE FOLLOWING QUESTION:	4X4=16
10.The difference of squares of two numbers is	180.The square of the smallest number is
8 times the larger number. Find two numbers.	
11.Find two consecutive positive integers sum of 12.Prove that	of whose squares is 365.
cosA/(1+sinA) + (1+SinA)/CosA=2 secA	
13.Prove that	
√(1+SinA/1-SinA) = secA + tanA	

CHARANS PUBLIC SCHOOL STD- IX MOCK TEST MATHEMATICS PART-B

MARKS: 25

IV.ANSWER THE FOLLOWING QUESTIONS:

 $5 \times 2 = 10$

14.Find the roots of Q. E 2x²+x-6=0 by factorisation method.
15Find the roots of Q. E 2x²-7x+3=0 by formula method
16.If tan 2A= cot (A-18°), where 2A is an acute angle, find the value of A.
17.If SinA =¾ calculate Cos A and Tan
18.Find the value of K if 2x²+kx+3=0 has equal roots.

V. ANSWER THE FOLLOWING QUESTIONS:

 $5 \times 3 = 15$

19.Find the nature of

1) $2x^2-3x+5=0$

II) $3x^2-4\sqrt{3}+4=0$

20.Find the roots of Q. E $\sqrt{2}x^2+7x+5\sqrt{2}=0$ by factorisation method.

21. Find the roots of 1/(x+4) - 1/(x-7) = 11/30, x is not equal to -4, 7

22.Evalute 2 tan245° +cos 230°-Sin 260°

23.If tan (A+B) = $\sqrt{3}$ & tan (A-B) = $1/\sqrt{3}$ find A and B.

CHARAN'S PUBLIC SCHOOL

GENERAL SCIENCE Mock test

STD: IX

IV. Draw the following diagrams

9. Draw a neat diagram of water longitudinal section of flower.

10. Draw a neat labelled diagram of a bio gas plant.

TOTAL MARKS: 50

Max. Marks: 25

 $2 \times 2 = 4$

Part - A

		1 416 71	
I. Choose the corr	ect answer:		1 × 4 = 4
1.Butanone is a for	ur carbon compo	and with the functiona	l group
a.Carboxylic acid	b. Aldehyde	c. Ketone	d. Alcohol
2. Asexual reprodu	ıction takes place	through budding in_	
a. Amoeba	b. Yeast	c.Plasmodium	d. Leishmania
3. The anther conta	ains		
a. Sepals	b. Ovules	c. Pistil	d. Pollen grains
4. Which one of the	e following materi	als cannot be used to	make a lens?
a. Water	b. Glass	c. Plastic.	d. Clay
II. Answer the fol	lowing question:		4 × 3 = 12
5. Nitrogen (atomi	c number 7) and p	hosphorus (atomic n	umber 15) belong to group
			of these two elements.
Which of these will 6. What are the ad	vantages and dis	advantages of using a	solar cooker?Are there
		ave limited utility?	
7. A convex mirror	r used for rear vie	w on an automobile h	as a radius of curvature of he position, nature and size
of the image.			
III. Answer the fol	lowing question:		5 × 1 = 5
8. Explain the med	hanism of the cle	aning action of soap	with a neat labelled diagram.

CHARAN'S PUBLIC SCHOOL GENERAL SCIENCE Mock test

STD: IX

TOTAL MARKS: 50

Max. Marks: 25

Part-B

V. Answer the following questions:

 $1 \times 6 = 6$

- 11. What is a good fuel?
- 12. What is geothermal energy?
- 13. Find the focal length of a convex mirror whose radius of curvature is 32cm.
- 14. What are fossils?
- 15. Define pollination and fertilisation
- 16. Name three elements with filled outermost shells.
- VI. Answer the following questions:

 $2 \times 5 = 10$

- 17. What are the disadvantages of fossil fuels?
- 18. Find the focal length of a lens of power -2.0 D. What type of lens is this?
- 19. Explain the terms analogous and homologous organs with examples.
- 20. How does the embryo get nourishment inside the mother's body?
- 21. Why do you think the noble gases are placed in seperate group?
- VII. Answer the following questions:

 $3 \times 3 = 9$

- 22. A doctor has prescribed a corrective lens of power + 1.5 D. Find the focal length of the lens. Is the prescribed lens diverging or converging?
- 23. How is the sex of a child determined in human beings?
- 24. Draw the structures of the following compounds.
- a. Ethanoic acid b. Hexanal c. Butanone.

Charans Public School

Social-Scier	ice Mock Test	
Std.IX	I Term	MM:50
	HISTORY	MM: 25
I.Answer the following question	ons:-	1×2=2
1.Who are radicals?		
2. What is meant by Human Ri	ghts?	
II Answer the following quest	ons:-	2×3=6
3. What is Women's Movemen	t? Give examples.	
4. Division of Bengal was an e	xample of divide and rule p	olicy of the
British. Discuss.		2.5
5. What were the major proble	ems that emerged after the	Second World
War.		
III. Answer the following que	stions:-	3×3=9
6. Why did environmental acti	vists oppose Sardar Sarova	r Project?
7. What were the reasons for	he withdrawal of Division o	of Bengal?
8. Why are Human Rights imp	ortant?	
IV. Answer the following ques	tions:-	4×2=8
Discuss the role of Balagan movement.	gadhara Tilak in the Indepe	endence
10. Arms race led to total dest are the effects of Arms Race?	ruction of world. In this ba	ckground, what

GEOGRAPHY	MM: 25
I.Answer the following questions:- 1.What is GPS?	1×2=2
2. What are the main uses of Manganese Ore?	
II. Answer the following questions:-	2×3=6
3. Define the terms Minerals and Mining.	
4. Define Transport and Communication.	
5. Why Bengaluru is called the 'Silicon City' of India?	
III.Answer the following questions:-	3×3=9
6. Why India is facing energy crisis?	
7.List out the major industrial regions of India.	
8. Write the importance of knowledge- based Industry in India.	
IV. Answer the following questions:	4×2=8
9. What measures can be taken to conserve energy resources?	In III and in
10. Explain briefly the importance of Transport in India.	