## D.A.V. PUBLIC SCHOOL DAUDNAGAR H.A.+P.W.FOR SUMMER VACATION (2025-26)

## CLASS-IX(A/B/C).

SUBJEC T	H.A	P.W
MATHS	MCQ.	Make a working
	1) $\sqrt{6} \times \sqrt{27}$ is equal to:	polynomial"
	a. 9√2. b. 3√3. c. 2√2. d. 9√3	
	2.) Which of the following is equal to x <sup>3</sup> ?	
	a. $x^6 - x^{3.}$ b. $x^6.x^{3.}$ c. $x^6/x^{3.}$ d. $(x^6)^3$	
	3) Which of the following is an irrational	
	number?	
	a. √23. b. √225. c. 0.3796. d. 7.478478	
	<b>4).</b> If $x + 2$ is a factor of $x^3 - 2ax^2 + 16$ , then value	
	f a is	
	(a) 3 (b) 1. (c) 4. (d) 2	
	5) If one of the factor of $x^2 + x - 20$ is $(x + 5)$ . Find	
	ne other	
	(a) x-4 (b) x+2	

(c) x + 4. (d) x - 5	
ASSERTION/REASON	
a) Both A and R are true and R is the correct explanation of A	
b) Both A and R are true but R is not the correct explanation of A	
c) A is true but R is false d) A is false but R is true	
<b>6).</b> Assertion: $\sqrt{5}$ is an irrational number.	
<b>Reason:</b> A number is called irrational, if it cannot be	
written in the form p/q, where p and q are integers and	
q≠0.	
<b>7.)</b> Assertion: the rationalizing factor of $3+2\sqrt{5}$ is	
3-2√5.	
<b>Reason:</b> If the product of two irrational numbers is	
rational then each one is called the rationalizing factor	
of the other	
8)Assertion : If $(x + 1)$ is a factor of $f(x) = x^2 + ax + 2$	
then $a = -3$ . Reason : If $(x - a)$ is a factor	
of $p(x)$ , if $p(a) = 0$ . FILL	
IN THE BLANKS	
9) The <b>constant polynomial</b> $f(x) = 0$ is called	
polynomial.	
10)• Degree of zero polynomial is	
11) every real number is zero of	
1	1



$$\begin{array}{c} (i) \ \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}} \\ (ii) \ \frac{5+2\sqrt{3}}{7+4\sqrt{3}} \\ (iii) \ \frac{1+}{3-2} \\ (iv) \ \frac{2\sqrt{6} - \sqrt{5}}{3\sqrt{5} - 2\sqrt{6}} \\ (v) \ \frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}} \\ (vi) \ \frac{2}{2} \\ \hline \\ 1 \\ (iv) \ \frac{1}{3\sqrt{5} - 2\sqrt{6}} \\ (v) \ \frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}} \\ (vi) \ \frac{2}{2} \\ \hline \\ 1 \\ (iv) \ \frac{1}{3\sqrt{5} - 2\sqrt{6}} \\ (v) \ \frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}} \\ (vi) \ \frac{2}{2} \\ (vi) \ \frac{1}{2} \\ \hline \\ 2 \\ (vi) \ \frac{1}{2} \\ (vi) \ \frac{1$$

	5-लेखक लैंगकॉोर के मार्ग में अपने साथियों से किस कारण बढ़ गया? 6-किस घटना से पता चलता है कि हीरा और मोती में गहरी दोस्ती थी? 7-इस संसार में सच्चा संत कौन कहलाता है? 8-मनुष्य ईश्वर को कहां-कहां ढूंढता फिरता है? 9-ज्ञान की आंधी का भक्ति के जीवन पर क्या प्रभाव पड़ता है? 10-कबीर दास एक सभा सुधारक थे सिद्ध कीजिए । 11-तिब्बत की भौगोलिक स्थिति क्या थी? स्पष्ट कीजिए । 12-उपमा अलंकार के अंग कितने हैं? 13-शब्दालंकार के कितने भेद हैं? 14-तत्पुरुष समास किसे कहते हैं ?सोदाहरण लिखें । 15-अव्ययीभाव समास किसे कहते हैं?	
SANSKR	प्रश्त -1 प्रदतविकल्पेक्ष्यः उतराणि चित्वा लिखन्तु - 1)' किं करोमि' इति कः चिन्तयति ? क. विप्रः ख. शिक्षकः ग. जनः 2) कृष्णसर्पः केन दृष्टः ? क. रामेण ख. नकुलेन ग. फलेन 3)परं भूषणं किम् ? क. धनम्म ख. शीलम् ग. पुस्तकम् 4)धनराशि कः आनयति ? क. प्रतापः ख. भामाशाहः ग. बालकः 5)हंसमध्ये कः न शोभते ? क. नकुलः ख. बकः ग. सर्पः प्रश्न - 2 मञ्जूषातः समुचितं विशेषणपदं चित्वा लिखन्तु - 1)	'क्रीडाक्षेत्रस्य ' चित्र निर्माणं कृत्वा पञ्चवाक्यानि संस्कृतभाषायां लिखन्तु ।

	1)प्रतापं निराशं दृष्ट्वा के दुः खीयन्ति?	
	2)सैनिकः स्वचक्षुषा किं द्रष्टुं न शक्नोति?	
	3)गौरवं कथम् प्राप्यते ?	
	4(कीदृशी) भूमिः तोयं ददाति	
	5)नकुलं कः व्यापादितवान् ? प्रश्न - 4 निम्नलिखित प्रश्नानाम् उत्तराणि पूर्णवाक्येन लिखन्तु -	
	1)ब्राहमणः बालकस्य रक्षायै कम् उपायम् अचिन्तयत्?	
	2)परमापदां पदं किम् ?	
	3)परोपकारिणां स्वभावः कीदृश: वर्तते ?	
	4)प्रतापः किं श्रुत्वा लज्जाम् अनुभवति?	
	5)कीटः कथं सतां शिरः आरोहित ?	
	प्रश्न -5 मञ्जूषाया: सहायतया अन्वयं पूरयत - तरवःघनाः भवन्ति , घनाः भूरिविलभ्बिनः, सत्पुरुषाःघनाः अनुद्धता , परोपकारिणाम् एष एव स्वभावः ।	
	मञ्जूषा - समृद्धिभिः , नवाम्बुभिः , फलोद्गमैः प्रश्न - 6 अधोलिखितानां सोदाहरणं व्याख्यां कुर्वन्तु -	
	1) कर्ता कारकम् ( क्रिया सम्पादकः कर्ता)	
	2(अभितः , उभयतः , परितः, सर्वतः योगे द्वितीया	
	4	
ENGLIS H	Long answer type questions (1 to 11) Q No.1. Attempt a character sketch of Evelyn. Q.No.2. Make a comparative study of the experiences and difficulties faced by Evelyn and Bismillah Khan in their musical journey. Q.No.3. One should be wise and mature while taking decisions in life. Answer with reference to the poem, ' The Road Not Taken '. Q.No. 4.What are the main features of the mechanical	Draw a beautiful picture of Robert Frost and write his biography and major works

	teachers and the school rooms that Margie and	
	Tommy have in the story?	
	Q.No. 5.1s it right to confine animals and restrict their	
	Q No 6. What difference do you notice in the child's	
	behaviour before and after he gets lost ? What do you	
	think happens in the end ? Does the child find his	
	parents?	
	Q.No.7. Toto was a mischievous monkey. Elaborate.	
	Q.No.8. Your school organised an excursion to	
	Amritsar and Wagah Border. Write a diary entry about	
	your visit in 100 - 150 words.	
	with the window open. Around 2:00 n m. I heard	
	Complete the story in about 150 - 200	
	words, about what happened then. Give a suitable	
	title to your story.	
	Q.No.10. Write an article on 'The Role of Social	
	Media in our Daily Lives ', in about 100 - 150 words.	
	Q.No.11. You are Lalit / Lalita Khurana , a resident of	
	61, Jonari Bazar, Kalinal. You are very much	
	conditions in your town. You have written to the	
	Municipal committee guite often but your efforts have	
	not yielded any results. Write a letter to a newspaper	
	against bad lighting and insanitary conditions in your	
	town.	
	Short Answer type questions (12 to 19)	
	Q.No.12.How can you say Bismillah Khan was a	
	Deffect example of India's cultural heritage?	
	from grandmother 2	
	Q.No 14.Why did the child lose interest in the things	
	that he wanted earlier?	
	Q.No. 15.Why did Margie hate her school more than	
	ever?	
	Q.No.16.Why did Aurangzeb ban the playing of pungi	
	? How is a shehnai different from a pungi ?	
	U.NO. 17.HOW did KON FORDES INTIDENCE EVERYN TO	
	Choose the correct ontions .	
	Q No. 18. Assertion ( A) : Margie and Tommy found	
	the book from real life fascinating.	
	Reason (R): They had only experienced mechanical	
	teachers and did not know about human interaction or	
	the Joy of reading physical books.	
	(a) Both A and R are true and R is the correct	
	(b) Both A and R are true and R is not the corroct	
	explanation of A.	
1		

	<ul> <li>( c) A is true but R is False.</li> <li>( d) A is false but R is true.</li> <li>Q. No. 19. Assertion ( A ) : Granny's tree top house was built to accommodate her love for trees and her climbing abilities.</li> <li>Reason ( R ) : The poem mentions that the narrator's father built the tree top house for Granny , allowing her to enjoy the trees while staying safe.</li> <li>Both A and R are true and R is the correct explanation of A.</li> <li>Both A and R are true and R is not the correct explanation of A.</li> <li>A is true but R is False.</li> <li>A is false but R is true.</li> </ul>	
SCIENC	<ol> <li>1.Why do we feel cool when we spray perfume on our body?</li> <li>2.What is evaporation? On what factors does it depend?</li> <li>3.How does increased surface area help in faster evaporation?</li> <li>4.A girl walks along a straight path to drop a letter in the letterbox and comes back to her initial position. Her displacement-time graph is shown. Plot a velocity-time graph for the same.</li> <li>5.A bullet hits a sand box with a velocity of and penetrates it up to a distance of 6 cm. Find the deceleration of the bullet.</li> <li>6.A car starts from rest and accelerates at 4 m/s<sup>2</sup> for 10 seconds. Calculate its final velocity and displacement.</li> <li>7.A car travels 30 km at a uniform speed of 40 km/h and the next 30 km at a uniform speed of 20 km/h. Find its average speed for the entire journey.</li> <li>Value based questions</li> <li>8.Scenario: A jeep was moving at a speed of 120 km/h on a highway. Suddenly, the tyre of the jeep got punctured and burst. The driver did not apply sudden brakes but gradually slowed down and finally stopped at the roadside. All the passengers in the jeep were shocked but happy with the driver's decision.</li> <li>What would have happened if the driver had applied sudden brakes?</li> <li>In which direction would the passengers fall upon applying brakes?</li> <li>What value of the driver is reflected in this act?</li> <li>Why is the cell called the structural and functional</li> </ol>	.Make a detailed 3D model of an animal or plant cell .labeling all major organelles like the nucleus, mitochondria, endoplasmic reticulum, chloroplasts (for plant cells), and vacuoles.

	unit of life? 10.Which organelle is known as the powerhouse of the cell? Why? 11.What is the difference between prokaryotic and eukaryotic cells? PRACTICAL BASED QUESTIONS 12.What would happen if the organization of a cell is destroyed due to physical or chemical influence? 13.Why are lysosomes known as suicide bags? VALUE BASED QUESTIONS 14.Scenario: Vasu was helping his mother lay the table when guests arrived for dinner. He was about to sprinkle salt on the salad but was stopped by his mother, who advised him to do so only when they were seated for the meal. 1. What would happen if salt were sprinkled on the salad beforehand? II. What values are exhibited by Vasu in this situation? HOTS TYPE QUESTIONS 15.If a chloroplast is isolated from a plant cell and illuminated, it continues to perform photosynthesis and release oxygen. Explain why this occurs and discuss the implications for our understanding of cellular functions. 16.Explain the role of the nucleus in a cell and discuss the consequences of its absence in eukaryotic cells. 17.Why do people sprinkle water on the open ground or roof after a hot sunny day? 18.A small volume of water in a kettle can fill a kitchen with steam. Explain why. 19.A person walks 3 km east and then 3 km west. What is the average speed and average velocity? 20.What is the Significance of the Slope in a Distance-Time Graph? 1	
SST	1) What was Bastille?Why was it hated by the people?	
	2) Write about the three main French Philosophers and their role in French Revolution 1789.	
	3) Why is democracy better than any other form of Government ? Write five arguments to support your answer.	

	<ul> <li>4) Distinguish between the democratic government and non- democratic government.</li> <li>5) Describe the location and size of India.</li> <li>6) Why do we need a Standard Meridian for India?</li> <li>7) Explain the concept of physical capital and working capital used in farming.</li> <li>8) Distinguish between Multiple cropping and Modern farming.</li> <li>9) On the outline map of France locate and label the following</li> <li>a) The place where the French Revolution of 1789 was started.</li> <li>b) The place where an assembly at the Estate General was called on 5th May ,1789.</li> <li>c) A City whose name is associated with the National anthem of France.</li> </ul>	
	10) On an outline map of India located and level the following: a) Tropic of Cancer b) Standard Meridian of India 82 °30 'E.	
I.T	<ol> <li>What do you understand by Communication and why is it important in our life?</li> <li>What are the advantages and disadvantages of written, verbal and non-verbal communication?</li> <li>What is the difference between verbal and non-verbal communication? Give examples.</li> <li>Write five Do's and Don'ts of effective body language.</li> <li>Explain the various parts of speech. Use them in a paragraph and show each component.</li> <li>Draw a diagram of communication cycle and list down the importance of each element.</li> <li>What are the various causes of stress? Explain with examples.</li> <li>List down some tips for building self-confidence.</li> <li>Why do we need to focus on self-management ? How does it improve one's life?</li> <li>What are the various types of self-management skills?</li> <li>What are some of the physical signs of stress?</li> </ol>	1. Write and present a talk on what I wish to become and what I do about it Let your imagination run and discuss with your classmates. On chart paper Or Stress Management Skills making using chart paper