SHAMBHU DAYAL GLOBAL SCHOOL WINTER'S HOLIDAY HOWEWORK

(SESSION 2023-24) CLASS – 8 (MYP -3)

S.No	SUBJECT	CONTENT	
1.	INDIVIDUAL	The following tasks need to be done in your respective register.	
	& SOCIETIES	 a. Create a bingo game with terms related to parliamentary systems. Learn about these terms, mark them on their bingo cards. 	
		b. WORKSHEET-	
		1. How do dictators use cults of personality to consolidate power?	
		2. What are the economic consequences of corruption in dictatorships	
		3. How do dictatorial regimes impact education and intellectual	
		freedom? 4. Is there a relationship between dietetership and nationalism?	
		4. Is there a relationship between dictatorship and nationalism?5. How does the concept of federalism or decentralization contribute to democratic governance?	
		6. What measures are in place to prevent or address corruption in democratic societies?	
		7. How do democracies handle the tension between national security and individual privacy?	
		8. What is the role of civil society in supporting and strengthening democracy?	
		9. How do education and civic engagement contribute to the sustainability of democratic systems?	
		10. Can democracies effectively address global challenges such as climate change and pandemics?	
		11. How do economic systems address environmental sustainability and natural resource management?	
		12. Can you discuss the role of competition in shaping economic outcomes?	
		13. How do economic systems deal with issues of inequality and social justice?	
		14. What are the main factors that influence economic growth in different systems?	
		15. How do economic systems adapt to changing technological	
		landscapes? 16. What are the consequences of income inequality within an economic system?	
		17. How do economic systems address the provision of public goods and services?	

2.	MATHS	 18. Can you explain the concept of economic indicators and how they are used to measure the health of an economy? 19. How do economic systems respond to economic crises, such as recessions or financial meltdowns? 20. Are there any instances where a dictatorship transitioned to a more democratic form of government? What factors contributed to this transition? On Embibe Learning platform Achieve journey of chapter Algebraic Expression and Exponents and powers
		Test on algebraic expressions due date 2.1.24
		Test on exponents and power due date 4th January 2024
		MATHEMATICS WORKSHEET OF CLASS VIII
		ALGEBRAIC EXPRESSIONS :TOPIC
		 Classify the following expressions as monomials, binomials and trinomials.
		$4a^2$ $5a^2b+3$
		$7b^3$ $8a^2 + 7ab + b^2$
		$4x^2 + 1$ $a^2 + b^2$
		2. Write the degrees of the following polynomials.
		a) $2x^2 + 3xy + 5y^2 + 2$ b) $7x^2y + 3xy^2 + 4xy$
		c) $x^3y^3 - 4x^2y + 5xy^2 + x^2y^2$ d) $4x^5 + 5x^3 + 7x^2 + 2$
		3. Add.
		a) $(10x^2 + 5x - 3) + (7x^2 - 2x + 7) =$
		b) $(3x^2y + 4x^2y^2 - 7xy^2) + (9x^2y - x^2y^2 + 3xy^2) =$
		c) $(10x^2y - 3xy^2 + 5x^2y^2 + 22) + (3x^2y^2 + 7) =$
		4. Subtract $2x^2 + 5x - 7$ from $7x^2 - 5x + 3$.
		5. Subtract $2ab+7a^2+8b^2$ from $10b^2+7ab+a^2$.

Subtract $5a^3 - 2a^2 + 7$	from the sum of $a^3 - 3a^2 + 5a + 1$ and $7a^2 + a + 3$.	

What should be added to $x^4 + 2x^2 - 7$ to obtain $4x^4 - 3x^3 + x^2 + 2$?

What must be subtracted from $4x^2y^2 + 3xy + 3xy^2$ to obtain $8xy^2 - 4x^2y + 7x^2y^2 + 10xy$?

Find the products of the following expressions.

1.
$$(2x-1)(x+2) =$$

2.
$$(p^2+q^2)(p+q) =$$

3.
$$\left(\frac{2}{3}x + y\right)(x^2 - y^2) =$$

4.
$$(2x-1)(x^2+x+1)=$$

5.
$$(3a+1)\left(\frac{a^3}{5}-a+1\right) =$$

6.
$$(x+xy)\left(\frac{x^2}{2} + xy + y^2\right) =$$

Evaluate the following by using the formulae for $(a + b)^2$ and $(a - b)^2$.

a)
$$(101)^2 =$$

b)
$$(99)^2 =$$

c)
$$(198)^2 =$$

EXPONENT AND POWERS : TOPIC

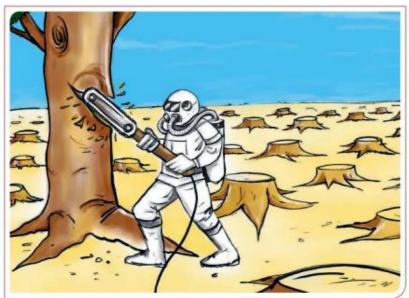
		4 White in annual state of the
		Write in exponential form:a) 5×5×5×5
		b) (-4) × (-4) × (-4)
		2. Value of (-1) ¹⁵ x (-1) ¹⁶ equals:
		(a)1 (b)-1 (c) -240 (d) 240
		3. Express each of the following in exponential form:
		(a) 1024 (b) 1331/343 4. Which is greater:
		(a) 3 ⁶ or 6 ³ ?
		(b) $-(5^2)$ or $(-5)^2$?
		5. Express each of the following numbers as a product of powers of its prime
		factors:
		a) 128 b) 625
		6. Find the value:
		a) (25) ^{3/2}
		b) (27) ^{4/3}
		c) $(\frac{4}{9})^{3/2}$
		7.
		$(1)^{-1} (1)^{-1} = (5)^{-7} (8)^{-4}$
		Evaluate (i) $\left\{ \left(\frac{1}{3} \right)^{-1} - \left(\frac{1}{4} \right)^{-1} \right\}^{-1}$ (ii) $\left(\frac{5}{8} \right)^{-7} \times \left(\frac{8}{5} \right)^{-4}$
		8. Find the value of m for which $5^m \div 5^{-3} = 5^5$.
		9. Simplify.
		(i) $\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}}$ $(t \neq 0)$ (ii) $\frac{3^{-5} \times 10^{-5} \times 125}{5^{-7} \times 6^{-5}}$
		$5^{-3} \times 10 \times t^{-8}$ $5^{-7} \times 6^{-3}$
		10. Simplify and express each of the following in exponential form
		using laws of exponents: a) $(4^2)^3$
		b) 2 ³ × 5 ³
		c) $a^4 \times a^7$
		d) $5^{12} \div 5^4$
3	Hindi	प्र. 1 अपठित' गद्यांश को पढ़कर प्रश्नों के उत्तर पुस्तिका में लिखिए \mid
		बातचीत करते समय हमें शब्दों के चयन पर विशेष ध्यान देना चाहिए, क्योंकि सम्मानजनक शब्द
		व्यक्ति को उदात्त एवं महान बनाते हैं। बातचीत को सुगम एवं प्रभावशाली बनाने के लिए सदैव
		प्रचलित भाषा का ही प्रयोग करना चाहिए। अत्यंत साहित्यिक एवं क्लिष्ट भाषा के प्रयोग से कहीं
		ऐसा न हो कि हमारा व्यक्तित्व चोट खा जाए। बातचीत में केवल विचारों का ही आदानप्रदान नहीं
		होता, बल्कि व्यक्तित्व का भी आदान-प्रदान होता है। अतः शिक्षक वर्ग को शब्दों का चयन सोच-
		समझकर करना चाहिए। शिक्षक वास्तव में एक अच्छा अभिनेता होता है, जो अपने व्यक्तित्व, शैली,
		बोलचाल और हावभाव से विद्यार्थियों का ध्यान अपनी ओर आकर्षित करता है और उन पर अपनी
		छाप छोड़ता है।
		। প্রাপ্তা হা
		(i) शिक्षक होता हैं ?
1		
		(क) राजनेता
		(क) राजनेता (ख) साहित्यकार

(ग) अभिनेता (घ) कवि (ii) बातचीत में किस प्रकार की भाषा का प्रयोग करना चाहिए? (क) अप्रचलित (ख) प्रचलित (ग) क्लिष्ट (घ) रहस्यमयी (iii) शिक्षक वर्ग को बोलना चाहिए? (क) सोच-समझकर (ख) ज्यादा (ग) बिना सोचे-समझे (घ) तुरंत (iv) बातचीत में आदान-प्रदान होता है-(क) केवल विचारों का (ख) केवल भाषा का (ग) केवल व्यक्तित्व का (घ) विचारों एवं व्यक्तित्व का (v) उपर्युक्त गद्यांश का उचित शीर्षक है (क) बातचीत की कला (ख) शब्दों का चयन (ग) साहित्यिक भाषा (घ) व्यक्तित्व का प्रभाव $oldsymbol{2}$ निम्नलिखित में से किसी एक विषय पर $oldsymbol{A4}$ शीट पर शिक्षा सहित कहानी लिखिए $oldsymbol{|}$ ब्द 100 से 200 तक) 1. आज़ादी का सुख, संगठन की ताकत 2. जहाँ चाह वहाँ राह 3. भारत के किसी अंतरिक्ष मिशन पर कहानी लिखिए 4. भारत सेना के किसी खुफिया आपरेशन पर कहानी लिखिए | 5. अपने लक्ष्य पर निशाना लगाओ 6. ईश्वरीय दया

		3 निम्नलिखित शब्दों के तीन-तीन पर्यायवाची अ	 पनी पुस्तिका में लिखिए
			-
		1. बिजली -	2. देश -
		3. किनारा -	4. रात -
		5. बादल -	6. सुगंध -
		7. प्रकाश -	8. ईश्वर -
		9. अमृत -	10. कपड़ा -
		प्र.4 निम्नलिखित शब्दों के विलोम शब्द अपर्न	ो पुस्तिका में लिखिए
		1. पाप -	2. कृतज्ञ -
		3. गमन -	4. सच्चा -
		5. उपकार -	6. आस्तिक -
		7. खरा -	8. सत्य-
		9. शाश्वत -	10. वरिष्ठ -
		प्र.5 रॉयल टेलीविज़न' बनाने वाली कंपनी के कीजिए।	लिए विज्ञापन अपनी उत्तर पुस्तिका में तैयार
			या
		'उत्तर प्रदेश पर्यटन विभाग' पर्यटकों के लिए व में एक विज्ञापन अपनी उत्तर	
3.	SCIENCE	Do the given worksheet in your	notebook
		1. What is the resistivity of a sem	
		a) More than that of insulators an	
		b) Between that of insulators and	
		c) Less than that of insulators andd) None of the above	Conductors
		2. Which among the following is semiconductor material?	the most widely used
		a) Potassium	b) Phosphorous
		c) Silicon	d) Arsenic

	3. The energy gap between the band in a semiconductor is	e valence band and the conduction
	a) 5 Ev	b) 10 eV
	c) 15 eV	d) 1 Ev
	4. What is the sign of the tempa semiconductor?	perature coefficient of resistance in
	a) Negative	b) Positive
	c) Zero	d) None of the above
	•	ns are there in semiconductors?
	a) 2	b) 3
	c) 4	d) 6
	6. What is the resistivity of pu condition?	re germanium under the standard
	a) $6 \times 104\Omega$ cm	b) 60 Ω cm
	c) $3 \times 10-3\Omega$ cm	d) $6 \times 10-4\Omega$ cm
	7. Where does the strength of from?	a semiconductor crystal come
	a) Forces between nuclei	b) Force between protons
	c) Electrons-Pairs bonds	d) None of the above
	8. What is the charge on a n-ty	
	a) Positively charged	
	c) Negatively charged	d) None of the above
	a) Electrons are majority carri	of the following statement is true? ers and trivalent atoms are the
	dopants.b) Electrons are minority carridopants.	iers and pentavalent atoms are the
	c) Holes are minority carriers dopants.	and pentavalent atoms are the
	d) Holes are majority carriers dopants.	and trivalent atoms are the
	-	n, holes diffuse to the n-region
	(a) free electrons in the n-region	on attract them.
	· ·	tion by the potential difference.
	•	region is more as compared to the
	n-region. (d) All of the above.	
1	(5) 1111 01 1110 1100 101	

		11. What type of impurity is added to obtain n-type
		semiconductor?
		12.Under what condition does a junction diode work as an open switch?
		13. Why is a semiconductor damaged by a strong current?
		14. What do you mean by depletion region and potential barrier
		in junction diode?
		15. What do you mean by hole in a circuit? Write its two
		characteristics.
		16. Give the ratio of number of holes and the number of
		conduction electrons in an intrinsic semiconductor.
		17. How does the energy gap of an intrinsic semiconductor vary,
		when doped with a trivalent impurity?
		18.Draw a p-n junction with reverse bias. Which biasing will
		make the resistance of a p-n-junction high?
		19. The base of a transistor is lightly doped. Explain why?
		20.Distinguish between conductors, insulators and
		semiconductors on the basis of energy band diagrams.
		21.Draw the symbol for Zener diode. Zener diodes have higher
		dopant densities as compared to ordinary p-n junction diodes. How does it affect the
		i. width of the depletion layer?
		ii. junction field?
		22. Why does the resistivity of semiconductors go down with
		temperature?
		23. What are some important properties of semiconductors?
		24. What are some devices that use semiconductors?
		25.Describe the difference between donor and acceptor
		impurities.
5	English	1. Write a story in your Grammar copy on the given image
		in 300-400 words.



- 2. Make a power point presentation on the topic
- "Sustainable goals to save the Earth" with 10-15 slides.
- 3- Write a descriptive paragraph on the topic "Your Choice Makes Difference" in 200-300 words. (Write in Grammar copy).

WORKSHEET OF TENSES:(DO IN GRAMMAR COPY)

- Q1.Write the type of tense in following sentences:
- 1. The dog is barking at the postman.
- 2. She has been working on the project for a week.
- 3. They will be leaving for Delhi on Monday.
- 4.I had been living in the city for five years before I moved to the countryside.
- 5.If I had known you were coming, I would have made a cake.
- 6.He used to go for a walk every morning.
- 7.He goes to the gym every day.
- 8.He went for a walk yesterday.
- 9.He will go for a walk tomorrow.
- 10.I have eaten my lunch.
- Q2. Change the tense:
- 1. The dog is barking at the postman. (Simple Present)
- 2.She has been working on the project for a week. (Present Perfect)
- 3. They will be leaving for Delhi on Monday. (Simple Future)
- 4.I had been living in the city for five years before I moved to the countryside. (Past Perfect)
- 5.If I had known you were coming, I would have made a cake. (Simple Past)
- 6.He used to go for a walk every morning. (Past Continous)
- 7.He would go for a walk every morning. (Simple Past)

	8.He went for a walk yesterday. (Simple Future)
	9.He will go for a walk tomorrow. (Simple Present)
	10.I ate my lunch along with my friends. (Simple Future)
	Q3.Fill in the blanks with correct form of verb:
	1.The train at 10:00 AM.
	2.I studying for two hours.
	3.They here in a few minutes.
	4.I had been in the city for five years before I moved to the countryside.
	5.If I you were coming, I would have made a cake.
	6.He go for a walk every morning.
	7.He for a walk every morning.
	8.He for a walk yesterday.
	9.He for a walk tomorrow.
	10.He go for a walk later.
	Q.Write an email to your friend Divya Chaudhari telling her about your school trip to Corbett Park, Dehradun.(In
	Grammar copy about 50 –80 words)
	Q.Last week you were caught in a sudden shower of rain.
	Write an email to your friend describing the experience.(In Grammar copy about 50-80 words)