

SUBJECT	TASK ASSIGNED	21 ST CENTURY
		SKILLS
ENGLISH	A. Prepare a mind map on the storyline of "The Last Leaf" based on your understanding of the text.	• Creative and critical thinking
	GUIDELINES:	skills
	1) Place the central theme/main idea or controlling point in the centre of your page. You may find it easier to place your page on the side, in landscape orientation, which is easier for drawing purposes.	• Cognitive skills
	2) Use lines, arrows, speech bubbles, branches and different colours as ways of showing the connection between the central theme/main idea and your ideas	 Analytical skills
	which stem from that focus.3. Make illustrations and use descriptive adjectives for the characters.	• Problem solving skills
	B. Answer the following questions in 100-150 words each.	• Writing skills
		• Literary skills
	1. "It's not the little girl's fault, Mrs Jones. I think the geography sector was geared a little too quickly." What was wrong with the geography sector? Do you think that a machine can be a good teacher?	• Research skills
	2. Robert Frost chose a road that was less travelled by. What does this choice reveal about his character? Do you think people should regret their decisions once they have been made?	
	3. In what ways does the lost child's journey through the fair symbolize the journey of life?	
	4. Old Behrman sacrificed his own life to save another life. Discuss.	
	C. Write a story in about 150-200 words based on the given outline:	
	Ramu and his son on the thatched roof of their hut- village submerged under flood waters-hungry and thirsty - relief arrives next day- given food to eat-taken to relief camp - happy to see friends and relatives safe - prays to Almighty to give him strength to start life afresh.	
	GUIDELINES:	
	•Use simple language.	



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	•Use suitable adjectives and adverbs in your descriptions.	
	•Write in the first person or the third person.	
	•Don't have too many characters in the story.	
	•Try to describe both the physical appearance and behavioural traits of the characters. Add a few dialogues, if possible. The word count being less, you may not be able to include many.	
	•Divide your story into 3 paragraphs. This would be an ideal division for a word count of 150-200.	
	•Give the story an interesting title.	
2ND LANGUAGE (HINDI)	कक्षा-नवीं ग्रीष्मकालीन अवकाश गृहकार्य 1-कला समेकित शिक्षा पर आधारित गृहकार्य- पश्चिम बंगाल तथा तमिलनाडु के किन्हीं तीन-तीन स्वतन्त्रता सेनानियों का सचित्र वर्णन करें। नोट-इस कार्य(प्रश्न सं.2) को A4 पेपर पर करें तथा चैनल फाइल का प्रयोग करें।	• Cognitive Skill(संज्ञाना त्मक कौशल)
2ND LANGUAGE (BENGALI)	বাংলার পাঁচজন স্বাধীনতা সংগ্রামী সম্পর্ক েপ্রজকে্ট রচনা।	 Writing skills Literary skills Research skills



CLASS IX

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SESSION: 2022-2023					
MATHEMATICS	ONUMBER SYSTEM	•	Analytical		
	1) Assertion: 0.468 is a terminating decimal.	•	skill Numeric		
	Reason: A decimal in which a digit or a set of digits is repeated periodically, is called a repeating, or a recurring decimal.		literacy		
	a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion				
	b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.				
	c.) assertion is true but the reason is false.				
	d.) both assertion and reason are false.				
	2) Assertion: -25 is not a rational number.				
	Reason: -25 cannot be written in the form of p/q .				
	a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion				
	b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.				
	c.) assertion is true but the reason is false.				
	d.) both assertion and reason are false.				
	3) Assertion: Decimal expansion of every rational number is only terminating.				
	Reason : Decimal expansion of every irrational number is terminating recurring				
	a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion				
	b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.				
	c.) assertion is true but the reason is false.				
	d.) both assertion and reason are false.				
	4) Assertion: 1/7 and 2/7 in between only five irrational number are present.				
	Reason: Between two rational number limited irrational number are present.				
	a.) Both Assertion and Reason are correct and Reason is the correct explanation				



101 7	Assertion
	Both Assertion and Reason are correct and Reason is not the correct anation for Assertion.
c.) a	ssertion is true but the reason is false.
d.) b	ooth assertion and reason are false.
5) A	ssertion: $7\sqrt{5}$, $\sqrt{2+21}$ are the irrational number.
Reas	son: every integer is an rational number
	Both Assertion and Reason are correct and Reason is the correct explanation Assertion
	Both Assertion and Reason are correct and Reason is not the correct anation for Assertion.
c.) a	ssertion is true but the reason is false.
d.) b	ooth assertion and reason are false.
6) A	Assertion : the rationalizing factor of $2+\sqrt{5}$ is $2-\sqrt{5}$
	son: the product or quotient of non-zero rational number with irrational ber is rational.
	Both Assertion and Reason are correct and Reason is the correct explanation Assertion
	Both Assertion and Reason are correct and Reason is not the correct anation for Assertion.
c.) a	ssertion is true but the reason is false.
d.)	both assertion and reason are false.
7) A	ssertion : $8\sqrt{15} \div 2\sqrt{3} = 4\sqrt{5}$
	son : quotient of non-zero rational number with an irrational number is ional.
	Both Assertion and Reason are correct and Reason is the correct explanation Assertion
	Both Assertion and Reason are correct and Reason is not the correct anation for Assertion.



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c.) assertion is true but the reason is false.	
d.) both assertion and reason are false.	
8) Assertion :199÷198=19	
Reason: if a>0 be a real number and p and q be rational number then ap÷aq=ap-q	
a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion	
b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.	
c.) assertion is true but the reason is false.	
d.) both assertion and reason are false.	
9)Assertion: (2,3), (3,4), (5,7) are the coprime numbers pair	
Reason : Two numbers are co-prime of their HCF is 1.	
a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion	
b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.	
c.) assertion is true but the reason is false.	
d.) both assertion and reason are false.	
10) assertion: $x4. = X5/x 1$	
Reason: $ab/ac = ab-c$	
a.) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion	
b.) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.	
c.) assertion is true but the reason is false.	
d.) both assertion and reason are false.	



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11)The three rational numbers between 3 and 4 are:				
a. 5/2, 6/2, 7/2				
b. 13/4, 14/4, 15/4				
c. 12/7, 13/7, 14/7				
d.11/4, 12/4, 13/4				
12) In between any two numbers, there are:				
a. Only one rational number				
b. Two rational numbers				
c. Infinite rational numbers				
d. No rational number				
$13)\sqrt{9}$ is number.				
a. A rational				
b. An irrational				
c. Neither rational nor irrational				
d. None of the above				
14) Which of the following is an irrational number?				
a. √16				
b. √(12/3)				
c. √12				
d. √100				
15) $3\sqrt{6} + 4\sqrt{6}$ is equal to:				
a. 6√6				
b. 7√6				
c. $4\sqrt{12}$				
 d. 7√12				



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16) $x = (\sqrt{7} + \sqrt{6})/(\sqrt{7} - \sqrt{6})$

and $y = (\sqrt{7} - \sqrt{6})/(\sqrt{7} + \sqrt{6})$

find x + y = ?

17) Find 0.787878.... in fraction

18) If $x = 9 - 4\sqrt{5}$, then (x + 1/x)

STATISTICS

1)Assertion: Range = Maximum value – Minimum value

Reason: The range of the first 6 multiples of 6 is 9.

a) both Assertion and reason are correct and reason is correct explanation for Assertion

b) both Assertion and reason are correct but reason is not correct explanation for Assertion

c) Assertion is correct but reason is false

d) both Assertions and reason are false

2)Assertion: In the class intervals 10-20, 20-30,30-40.... 20 is included in interval 10-20

Reason: 20 is the upper limit of 10-20

a) both Assertion and reason are correct and reason is correct explanation for Assertion

b) both Assertion and reason are correct but reason is not correct explanation for Assertion

c) Assertion is correct but reason is false

d) both Assertions and reason are false

3) Assertion: the class width for the grouped frequency distribution of the class intervals 0-20, 20-40, 40-60, .. is 20

Reason: Class width is the difference of upper limit & lower limit

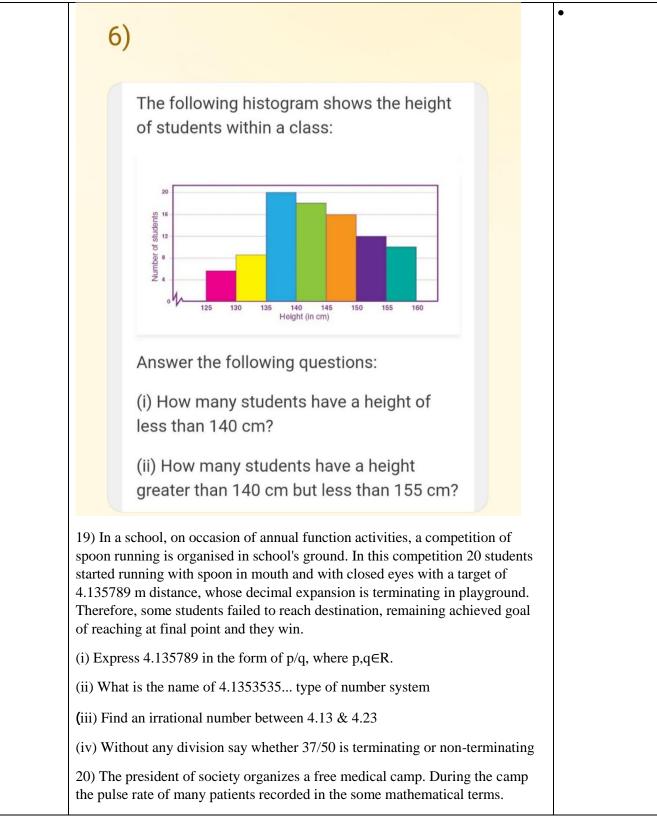
a) both Assertion and reason are correct and reason is correct explanation for



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b) both Assertion and reason are correct but reason is not correct explanation for Assertion						
Assertion is correct but reason is false						
both Assertions and reason	are false					
5) Draw a	histogram of the give	en				
	notograni or the give					
data						
Daily Wages in ₹	₹ Number of Workers					
30-40	10					
30-40	10					
30-40 40-50	10 20					
30-40 40-50 50-60	10 20 40					
30-40 40-50 50-60 60-70	10 20 40 16					
30-40 40-50 50-60 60-70 70-80	10 20 40 16 8					
30-40 40-50 50-60 60-70 70-80	10 20 40 16 8					
30-40 40-50 50-60 60-70 70-80 80-90	10 20 40 16 8					







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i)What is the value of 2.02323...

ii) $\sqrt{18} \times \sqrt{8} \times \sqrt{50} = ?$

iii) Value of 22/7

iv) $4^{2x} = 1/32$ find x





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SCIENCE	Multiple Choice Questions	 Critical Thinking, Problem 			
	1. Which one of the following sets of phenomena would increase on raising the temperature?	Solving, • Information			
	(a) Diffusion, evaporation, compression of gases	Literacy			
	(b) Evaporation, compression of gases, solubility				
	(c) Evaporation, diffusion, expansion of gases				
	(d) Evaporation, solubility, diffusion, compression of gases				
	2. Seema visited a Natural Gas Compressing Unit and found that the gas can be liquefied under specific conditions of temperature and pressure. While sharing her experience with friends she got confused. Help her to identify the correct set of conditions				
	(a) Low temperature, low pressure				
	(b) High temperature, low pressure				
	(c) Low temperature, high pressure				
	(d) High temperature, high pressure				
	3. The property to flow is unique to fluids. Which one of the following statements is correct?				
	(a) Only gases behave like fluids				
	(b) Gases and solids behave like fluids				
	(c) Gases and liquids behave like fluids				
	(d) Only liquids are fluids				
	4. A few substances are arranged in the increasing order of 'forces of attraction' between their particles. Which one of the following represents a correct arrangement?				
	(a) Water, air, wind				
	(b) Air, sugar, oil				
	(c) Oxygen, water, sugar				
	(d) Salt, juice, air				
	5.Choose the correct statement of the following				
	(a) Conversion of solid into vapours without passing through the liquid state is called vaporization.				
	(b) Conversion of vapours into solid without passing through the liquid state is called sublimation.				



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(c) Conversion of vapours into solid without passing through the liquid state is called freezing. (d) Conversion of solid into liquid is called sublimation. 6. The boiling points of diethyl ether, acetone and n-butyl alcohol are 35°C, 56°C and 118°C respectively. Which one of the following correctly represents their boiling points in kelvin scale? (a) 306 K, 329 K, 391 K (b) 308 K, 329 K, 392 K (c) 308 K, 329 K, 391 K (d) 329 K, 392 K, 308 K 7. Which condition out of the following will increase the evaporation of water? (a) Increase in temperature of water (b) Decrease in temperature of water (c) Less exposed surface area of water (d) Adding common salt to water 8. In which of the following conditions, the distance between the molecules of hydrogen gas would increase? (i) Increasing pressure on hydrogen contained in a closed container (ii) Some hydrogen gas leaking out of the container (iii) Increasing the volume of the container of hydrogen gas (iv) Adding more hydrogen gas to the container without increasing the volume of the container (b) (i) and (iv) (c) (ii) and (iii) (d) (ii) and (iv)Short Answer Type Questions 1. A sample of water under study was found to boil at 102°C at normal temperature and pressure. Is the water pure? Will this water freeze at 0°C? Comment. 2. A student heats a beaker containing ice and water. He measures the temperature of the content of the beaker as a function of time.

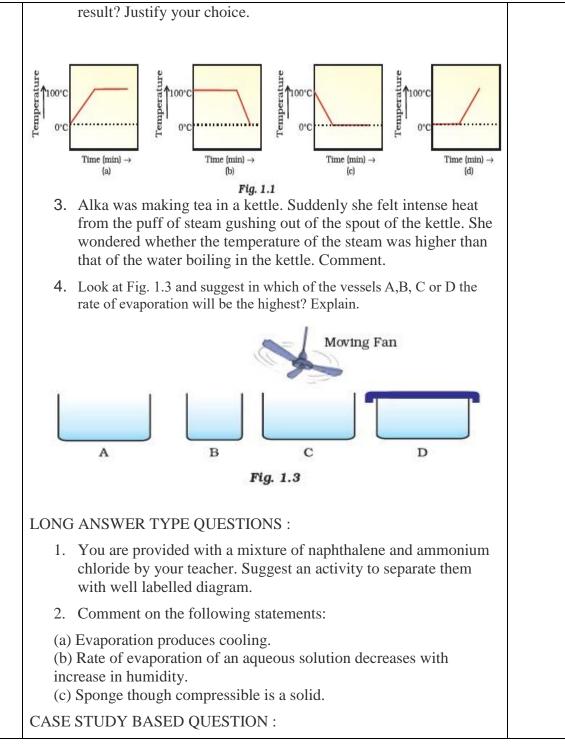
Which of the following (Fig. 1.1) would correctly represent the



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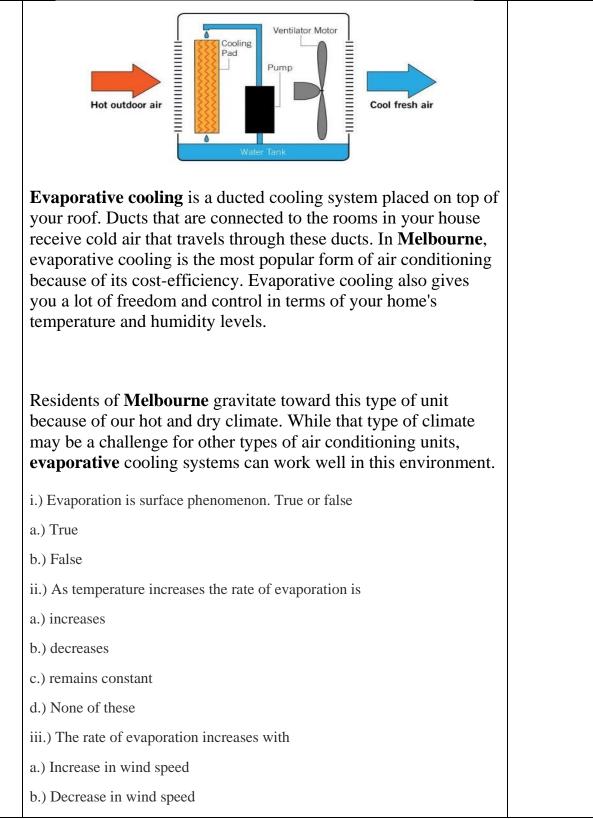
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	es not have any effect from wind speed		
d.) No	ne of these		
iv.) What happens when you pour some acetone (nail polish remover) on your palm?			
v.) We	e are able to sip hot tea from saucer than from cup. Why?		
Assign	Assignment: PHYSICS		
Direct	ions:		
1.	Solve the following problems in your Physics copy.		
2.	Write the questions down with a black pen and write the answers with a blue pen .		
3.	Draw a line after every problem using ruler and pencil .		
4.	Use pencil for drawing diagrams.		
Questi	ons:		
1.	Give one example of each of the following cases and explain with diagrams		
	a) Zero displacement but non-zero velocity.		
	b) Zero velocity but non-zero acceleration.		
	c) Constant speed but varying velocity.		
	d) Non-zero distance covered but zero displacement.		
	e) Displacement equal to the distance covered.		
2.	Is uniform accelerated motion uniform motion? Explain.		
3.	We know that,		
	average velocity = $\frac{\text{total displacement}}{\text{total time}}$		
In whi	ch specific condition we can say that,		
	average velocity = $\frac{initial \ velocity - final \ velocity}{2}$		

4. We know that,

v = st



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We also know that,

v = u + at

How can we have two different formulae for finding v? Explain?

- 5. A moving train is brought to rest within 20 seconds by applying brakes. Find the initial velocity, if the retardation due to brakes is $2m/s^2$.
- 6. A racing car has uniform acceleration of 4m/s². What distance will it cover in 10 seconds after start?
- 7. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s. Due to friction, its velocity decreases at the rate of 0.05 m/s^2 . How much time will it take for the body to stop?

SUB- BIOLOGY

A. MULTIPLE CHOICE QUESTIONS-

- 1. Chromosomes are made up of
 - i) DNA
 - ii) Protein
 - iii) DNA and protein
 - iv) RNA
- 2. Plasmolysis in a plant cell is defined as
 - i) Breakdown of plasma membrane in hypotonic medium
 - ii) Shrinkage of cytoplasm in hypertonic medium
 - iii) Shrinkage of nucleoplasm
 - iv) None of them
- 3. The undefined nuclear region of prokaryotes are also known as
 - i) Nucleus
 - ii) Nucleolus
 - iii) Nucleic acid
 - iv) Nucleoid



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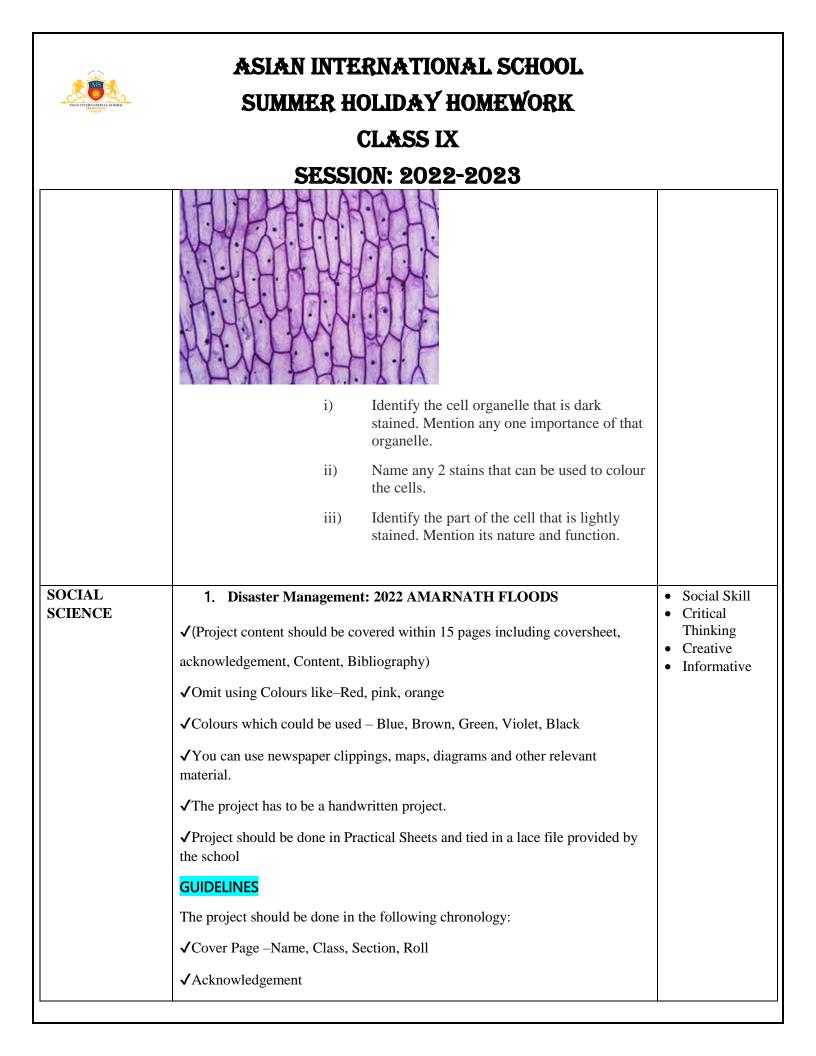
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	2	ESSION: 2022-2023	
B. F	REASON A	SSERTION BASED QUESTIONS-	
		given- one labelled Assertion (A) and other labelled as ne correct option.	
	a) Both	A and R are true and R is the correct explanation of A	
	b) Both A	A and R are true and R is not the correct explanation of	
	c) A is	true and R is false	
	d) A is	false and R is true	
	1. <i>A</i>	A- Plasma membrane is selectively permeable.	
R- It allo	ows all the n	nolecules to pass through it easily.	
	2. <i>A</i>	A- All cells come from pre-existing cells.	
R- Cells	divide to pr	oduce cells of their own kind.	
C. C	CASE- BAS	ED QUESTIONS-	
1	which se environn have and cell wall	I has an outermost covering called cell membrane, parates the contents of cell from its external ment. It is selectively permeable in nature. Plant cells other rigid covering outside the plasma membrane called , which is made up of cellulose and provides structural to plants.	
Based on	n the above	passage answer the following questions.	
	(a) Cell	wall is not found in the cell of	
	i)	Bacteria	
	ii)	Fungi	
	iii)	Small plants	
	iv)	Worms	
	(b) Plasi	na membrane is made up of	
	i)	Lipids	
	ii)	Proteins	
	iii)	Cellulose	
	iv)	Both (i) and (ii)	
	(c) Which	ch of the following statements is correct?	



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	D.		
	i)	Cell wall is non-living whereas plasma membrane is living	
	ii)	Cell wall is living whereas plasma membrane is nonliving.	
	iii)	Both cell wall and plasma membrane are living.	
	iv)	Both cell wall and plasma membrane are nonliving.	
2.	preexistin different s fundamen	isms are made up of cells. Each cell arises from the g cells. These cells become specialized to perform specialized functions after division. Cell is the basic tal, structural and functional unit of living organisms. s have fixed shape whereas some keep changing their	
Based on	the above j	passage answer the following questions.	
		first discovered cells with the help of primitive scope?	
	i)	Robert Brown	
	ii)	Robert Hooke	
	iii)	Purkinje	
	iv)	Virchow.	
	(b) Identi	fy the cells having changing shapes?	
	i)	WBC	
	ii)	Plant cell	
	iii)	Paramecium	
	iv)	None of the above.	
		panded the cell theory by suggesting all cells arise pre-existing cells	
	i)	Purkinje	
	ii)	Schleiden	
	iii)	Schwann	
	iv)	Virchow	
D. DI	AGRAM B	BASED QUESTION	





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✓Content

 \checkmark Introduction –

✓ Definition of Cyclone

✓Causes of Cyclone

✓Extent of damage to agriculture

 \checkmark Steps taken by the Govt. to combat drought

 \checkmark Organizations working to help the farmers

 \checkmark Dos and don'ts for next time to avoid such disasters

✓Conclusion

√Bibliography

(Project should contain relevant information as guided above with pictures)

2. THE FRENCH REVOLUTION popularized many symbols .Each symbol depicted some basic value.

Draw and mention the symbols and their related values. .(**To be done on project papers : Portfolio**)

2. POLITICAL SCIENCE

1. What is democracy?

2. What are the features of democracy?

3. What steps were taken by General Pervez Musharraf in Pakistan to empower himself?

4. Why Pakistan cannot be called a democracy under General Musharraf?

5. How election in India is different from Mexico?

6. Giving examples from Mexico, prove that although having a democratic system, they are not practicing democracy.

7. "Election in China do not represent people's verdict." Explain.

8. "The principle of One person, One vote, One value is not followed in every country." Elaborate.



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INFORMATION TECHNOLOGY	 What is information technology? What do you mean by BPO? What do you mean by technology certification? 	•	Writing skills Literary skills
	4. Explain the role of IT in education.5. Write about BPM industry in India.		

N.B: Details of the Projects have been uploaded on ERP as well as shared on the official class What'app group.