	Ent	crance Paper (2024-25)	For Office
. MACRO	Class:	IX (SAMPLE PAPER-II)	Use Only
VISION ACADEMY BURHANPUR	Time:	02:30 Hrs.	
	M.M:	75	
	Pers	onal Information	
Student's Name:-		Father's Name:-	

City:	_ Mobile No:	Exam Date:-	/	/2024	
Studving in Class:-	Appearing for class:-	Board:-			

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Section A contains 20 questions (from 1-20) of Mathematics.
- Section B contains 25 questions (from 21-45) of Science.
- Section C contains 10 questions (from 46-55) of Social Science.
- Section D contains 18 questions (from 56-73) of English.

Mathematics	Science	So. Science	English	OBTAINED MARKS
(20)	(25)	(10)	(20)	(75)

	Section-A			
Mathematics				
Q.No.	Questions	Answers		
	Answer the Following Questions.	L		
1.	The value of $\left(\frac{5}{6}\right) - \left(\frac{8}{9}\right)$ is	$-\frac{1}{18}$		
2.	If length of rectangle is 20 m and its width is 12 m, then perimeter of a rectangle is	64 m		
3.	Three angles of a quadrilateral are equal and the measure of the fourth angle is 120°. Then the measure of each of the equal angles are	80°		
4.	The value of $(15-8) \times 5 + 7 - 27 - 3$ is	12		

5.	5 5	85
	What number should be added to $-\frac{5}{8}$ to get $\frac{5}{9}$.	$\frac{1}{72}$
6.	The cube root of -343 is	-7
7.	The cost of 12 balls is Rs 19.20, the cost of 15 balls is	Rs. 24
	Rs	
8.	Outside the cinema hall, Neeraj has a stall that sells a	Rs. 236
	pack of popcorn for Rs. 200 excluding GST. The	
	government charges 18% GST on selling of goods or	
	services. The price at which Neeraj sells popcorn	
	includes GST	
9.	The lateral surface area of a cuboid with length,	$2(5x+3x^2)\times 7x^4$
	breadth and height as $5x$, $3x^2$ and $7x^4$ respectively is	$2(5x+3x^{2}) \times 7x^{4}$ = 14x ⁴ (5x + 3x ²) = 70x ⁵ + 42x ⁶
		$=14x^{2}(5x+3x^{2})$
		$=70x^{5}+42x^{6}$
10.	The area of a rhombus whose diagonals are of length	$65.6 cm^2$
	16 cm and 8.2 cm is	
11.	The value of $(4^{-1} - 5^{-1}) \div 3^{-1}$ is	$\frac{3}{20}$
12.	Janvi types 480 words in 15 minutes. How many	160 words
	words will she type in 5 minutes?	
13.	The quotient when $5x^2y$ is divided by $(-14xy)$ is	$-\frac{5}{14}x$
		14
14.	The factors of $4y^2 + 12y + 5$ is	(2y+5)(2y+1)
15.	Area of rectangle is 40 cm^2 . If its length is 10 cm then	4 cm
	its breadth will be	
16.	Statement 1 (S1): A parallelogram is a concave	(b) Only S ₂ is correct.
	quadrilateral.	
	Statement 2 (S₂): A quadrilateral in which the	
	measure of each angle is less than 180°, is called	
	convex quadrilateral.	
	(a) Only S ₁ is correct.	
	(b) Only S_2 is correct.	
	(c) Both S_1 and S_2 are correct.	
	(d) Both S_1 and S_2 are incorrect.	

17.		
	Statement 1 (S₁): The solution of $5y-10=3$ is 3.	(b) Only S ₂ is correct.
	Statement 2 (S₂): The degree of a linear equation is 1.	
	(a) Only S ₁ is correct.	
	(b) Only S_2 is correct.	
	(c) Both S_1 and S_2 are correct.	
	(d) Both S_1 and S_2 are incorrect.	
	Case study (Q.18 – Q.20)	
	Based on the given information, answer the following	g questions.
	Annual day was celebrated in a school. Activities like foll	c dance, singing, speeches, etc.,
	where held on that day. Sponsors decided to divide prize	money of Rs. 1,00,000 equally
	amongst the winners.	
18.	If the number of the winners is 50, then the amount	Rs. 2000
	of prize each winner will get	
19.	If the number of winners is 10 then amount of prize for	Rs. 10000
	each winner will be	
20.	If the prize money changes from Rs. 1,00,000 to	Rs. 5000
	2,00,000 and number of the winners are reduced to	
	40, then the amount of each winner will get	
	Section-B	
	Section-B Science	
21.	Science	Malleability
21.	Science Answer the following:	Malleability
21. 22.	Science Answer the following: Name the property due to which metals can be beaten	Malleability Carbon dioxide (CO ₂)
	Science Answer the following: Name the property due to which metals can be beaten into thin sheets.	
22.	Science Answer the following: Name the property due to which metals can be beaten into thin sheets. Which gas is produced when coal is burnt in air?	Carbon dioxide (CO ₂)
22.	Science Answer the following: Name the property due to which metals can be beaten into thin sheets. Which gas is produced when coal is burnt in air? What is the unit for expressing the calorific value of a	Carbon dioxide (CO ₂) Kj / Kg OR
22. 23.	Science Answer the following: Name the property due to which metals can be beaten into thin sheets. Which gas is produced when coal is burnt in air? What is the unit for expressing the calorific value of a fuel?	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram
22. 23.	Science Answer the following: Name the property due to which metals can be beaten into thin sheets. Which gas is produced when coal is burnt in air? What is the unit for expressing the calorific value of a fuel? What is the name of the reserved land used to protect	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram
22. 23. 24.	ScienceAnswer the following:Name the property due to which metals can be beaten into thin sheets.Which gas is produced when coal is burnt in air?What is the unit for expressing the calorific value of a fuel?What is the name of the reserved land used to protect biodiversity?	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram Biosphere reserve
22. 23. 24.	ScienceAnswer the following:Name the property due to which metals can be beaten into thin sheets.Which gas is produced when coal is burnt in air?What is the unit for expressing the calorific value of a fuel?What is the name of the reserved land used to protect biodiversity?A force of 200 N is applied on an area of 5 m².	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram Biosphere reserve
22. 23. 24.	ScienceAnswer the following:Name the property due to which metals can be beaten into thin sheets.Which gas is produced when coal is burnt in air?What is the unit for expressing the calorific value of a fuel?What is the name of the reserved land used to protect biodiversity?A force of 200 N is applied on an area of 5 m². Compute pressure being applied on the area.	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram Biosphere reserve
22. 23. 24. 25.	ScienceAnswer the following:Name the property due to which metals can be beaten into thin sheets.Which gas is produced when coal is burnt in air?What is the unit for expressing the calorific value of a fuel?What is the name of the reserved land used to protect biodiversity?A force of 200 N is applied on an area of 5 m².Compute pressure being applied on the area.Fill in the blank.	Carbon dioxide (CO ₂) Kj / Kg OR Kilojoules per kilogram Biosphere reserve 40 Pascal

29.	planet is least denser among all.	Saturn				
30.	Chlorofluorocarbon damage the layer of	Ozone				
	atmosphere.					
	Case study (Q.31 – Q.33)					
	Based on the given information, answer the following questions.					
	Sound plays an important role in our life. It is a form of energy which makes us hear .					
	Vibrating objects produce sound. Vibration is the to and fro or back and forth movement of					
	an object. Sound needs a medium to travel. Hence, it cannot travel in a vacuum.					
	Human beings have a voice box or larynx which is present in their throat on the upper side					
	of the windpipe. The larynx has two vocal cords which have a narrow slit between them so					
	that air can pass through it. As the lungs throw the air out of the windpipe, it passes					
	through the slit and hence allows the production of sound as the vocal cords start vibrating.					
	Since sound travels in the form of waves, it is important to study about characteristics of					
	waves. The three main properties of waves are Amplitude, frequency, and time period.					
	The magnitude of disturbance in the medium on either side of the mean value is called as					
	Amplitude(A). Larger the amplitude, louder the sound. The number of oscillations /					
	vibrations per second is called frequency. which is expressed in Hertz (Hz). Time taken for					
	one complete oscillation/vibration is the time period.					
31.	Which part of the human throat is responsible for the	Larynx				
	voice produced by a human?					
32.	The rapid to and fro or up and down movement of an	Oscillatory motion				
	object from its mean position is called as:					
33.	The maximum displacement of a vibrating object from	Amplitude				
	its mean position is called as:					
34.	Name the property due to which metal shine.	Lustre				
35.	Name the undesirable plants that grows among the	Weeds				
	crops.					
	Give one word for:					
36.	Dipika heard sound of thunderbolt 3 second after she	990 m				
	saw flash of lightning. How far is she from the place					
	where lightning occurs? (speed of sound = 330 m/s)					
37.	What is the direction of force of friction acting on a	Opposite to the direction of				
	moving object?	motion				
38.	If a wave has a short wavelength, what type of	High frequency				
L	1					

Name the process help in alcohol production.	Fermentation
What do we call the storage sacs of the cell?	Golgi bodies
Solve the following questions.	
When a compass is placed near an electric circuit, its	Magnetic force
needle gets deflected. The deflection of needle is	
because of force.	
In the figure of the human eye, the letter C is	Cornea
represented	
A water tank has four taps fixed at points A, B, C, D as	B & C
shown in Fig. Name The taps where water will flow out	
at the same pressure.	
A· B· · C · D	
Observe the following diagram given as	Animal cell
Does it represent a plant cell or an animal cell?	
	Solve the following questions. When a compass is placed near an electric circuit, its needle gets deflected. The deflection of needle is because of force. In the figure of the human eye, the letter C is represented A B C D A A B C D

45.	Two mirrors A and B are placed at right angles to each	75
	other as shown in Fig.	
	A TATA BE	
	A ray of light incident on mirror A at an angle of	
	25º falls on mirror B after reflection. The angle of	
	reflection for the ray reflected from mirror B would be?	
	Section-C	
	Social Science	
	Give one word for:	
46.	Which foreign power already had established contacts	Portuguese
	with the Western part of India by the time British ships	
	sailed and crossed Indian Ocean?	
47.	A terrible famine had struck Bengal in	1770
48.	Name the man who was seen roaming the forests and	Birsa
10	villages of Chottanagpur in Jharkhand in 1895:	2004
49.	EVM was used throughout the country for the first time in:	2004
50.	Identify the person in the image.Identify the person in the image.Image: Image:	(c) Robert Clive
51.	Minerals found near earth's surface are taken out by	Quarrying
	the process of	

52.	Statement 1 (S1): The process of photosynthesis is	(c) Both S_1 and S_2 are correct.	
02.	crucial for the survival of life on Earth.	(c) Doth O_1 and O_2 are correct.	
	Statement 2 (S₂): Photosynthesis is the primary		
	process through which green plants convert sunlight		
	into energy, producing oxygen as a by product.		
	(a) Only S_1 is correct.		
	(b) Only S_2 is correct.		
	(c) Both S_1 and S_2 are correct.		
	(d) Both S_1 and S_2 are incorrect.		
	Case study (Q.53 – Q.55)		
	Based on the given information, answer the following	questions.	
	Mona and Raju were helping Amma to clean their h	ouse. "Look at all these things	
	clothes, utensils, food grains, combs, this bottle of ho	ney, booksEach of these has a	
	use," said Mona. "That is why the yare important," said	d Amma. "These are resources".	
	"What is a resource?" was Raju's question to Amma. "An	ything that can be used to satisfy a	
	need is a resource", replied Amma. "Look around you and observe, you will be able to		
	identify many types of resources. The water you drink when you are thirsty, the electricity		
	you use in your house, the rickshaw you use to get home from school, the textbook you use		
	to study are all resources. Your father has prepared a tasty snack for you. The fresh		
	vegetables he has used are also a resource". Water, electricity, rickshaw, vegetable and		
	textbook have something in common. They have all been used by you, so they have utility.		
	Utility or usability is what makes an object or substance	e a resource. "How does something	
	become a resource?" Raju now wanted to know. Amma told the children that things become		
	resources only when they have a value. "Its use or utility gives it a value. All resources have		
	some value." said Amma. Value means worth. Some resources have economic value, some		
	do not. For example, metals may have an economic value, a beautiful land scape may not.		
	But both are important and satisfy human needs.		
53.	What is resource?	Resource is something that can be	
		used to satisfy our need.	
54.	What makes an object or substance a resource?	Utility or usability is what makes	
		an object or substance a resource.	
55.	Which resources have economic value?	Metals	
	Section-D		
	English		
	Read the passage given below and choose the correct	option:	
	The year 1997 marked the birth centenary of Enid Blyto	on, the author whose books are still	
	hot favourites with all of us. Enid Blyton was born in	London on 11 August 1897. As a	
	child, her mother wanted her to become a famous concert pianist, but young Enid had		

	other ideas. By the age of 8, she was found in her room scribbling away her stories and					
	poems. In he	er childhood,	Enid was not	t allowed any pets, but	she made up for this as an	
	adult.					
	Enid's first job was as a nursery school teacher. She soon discovered a sure way					
	her class quiet by telling them a story! So she started writing them. After her fir 'Child Whispers', was published in 1922, Enid went on writing a story near					
	fortnight. By the time she died in 1963 aged 71, she had written more than 700 books.					
	Based on your understanding of the passage, choose the app				propriate option:	
56.	Where was E (a) London	Enid Blyton bo (b) New York		(d) Rome	(a) London	
57.		d Blyton keep	her class qui	et when she was a	(c) By telling them a story	
	teacher? (a) By giving	them sweets	(b) By show	ing them a movie		
		them a story	.,	0		
58.			write a new s	story after her first	(c) Every fortnight	
	book was pu (a) Every day		(b) Every we	vek		
	(c) Every fort		(d) Every me			
59.	How many b	ooks did Enid	Blyton write	in total?	(c) More than 700	
	(a) More than		(b) More that			
60.	(c) More than What was Er	nid Blyton's fir	(d) More that rst_book?	ui 800	(a) Child Whispers	
00.	(a) Child Whi		(b) The Fam	ous Five	(a) enna whiepers	
	(c) The Secre		(d) Malory T			
	Fill in the f	following blan	t appropriate options from			
	the ones that	at follow.				
	The modern	student (61)	the	e importance (62)	physical exercise. He	
	spends one	to two hours	s in open air	(63) he ta	kes part in different sports.	
<u>(1</u>				not to overstrain (65)		
61.	(a) understoo (c) have under		(b) understa	and	(d) understands	
62.	(a) of		(d) understa	nde	(a) allaciotallac	
63.		(b) by	(d) understa (c) from	nds (d) with	(a) of	
	. ,	(b) by	(c) from	(d) with	(a) of	
	(a) how	(b) by (b) which	(c) from (c) where	(d) with (d) why	(a) of (c) where	
64.	. ,	(b) by	(c) from(c) where(c) takes	(d) with	(a) of	
	(a) how	(b) by (b) which	(c) from (c) where	(d) with (d) why	(a) of (c) where	
64.	(a) how(a) be taken(a) aUnscramble	(b) by(b) which(b) took(b) an	(c) from(c) where(c) takes(c) the	(d) with (d) why (d) has taken	(a) of (c) where (a) be taken	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: 	 (b) by (b) which (b) took (b) an the following set to the following s	(c) from (c) where (c) takes (c) the word and writ	 (d) with (d) why (d) has taken (d) some the correct one: 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In 	 (b) by (b) which (b) took (b) an the following the foll	 (c) from (c) where (c) takes (c) the word and writ g questions , 	(d) with(d) why(d) has taken(d) some	 (a) of (c) where (a) be taken (c) the 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into parts named 	 (b) by (b) which (b) took (b) an the following the following six parts. The las P, Q, R, S 	 (c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble 	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into a parts named P, Q, R, S ar 	(b) by (b) which (b) took (b) an the following the followin six parts. The l as P, Q, R, S and T to form m	 (c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble 	 (d) with (d) why (d) has taken (d) some (e the correct one: sentences have been and the remaining five 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into a parts named P, Q, R, S ar sentence res 	 (b) by (b) which (b) took (b) an (b) an the following the following six parts. The las P, Q, R, S, and T to form n pectively. 	 (c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble 	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into parts named P, Q, R, S ar sentence res You all are 	 (b) by (b) which (b) took (b) an (b) an the following the fo	 (c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble 	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into parts named P, Q, R, S ar sentence ress You all are P. sixth annu Q. meeting o 	 (b) by (b) which (b) took (b) an the following the foll	 (c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble neaningful beg 	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into parts named P, Q, R, S ar sentence ress You all are P. sixth annu Q. meeting o R. welcome t 	(b) by (b) which (b) took (b) an the following the following ix parts. The as P, Q, R, S and T to form m pectively. ual general of your compar- to this	(c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble neaningful beg	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	
64. 65. 66.	 (a) how (a) be taken (a) a Unscramble rams: Direction: In divided into parts named P, Q, R, S ar sentence res You all are P. sixth annu Q. meeting o R. welcome t S. where we 	 (b) by (b) which (b) took (b) an the following the foll	(c) from (c) where (c) takes (c) the word and writ g questions , first is given , T are jumble neaningful beg	 (d) with (d) why (d) has taken (d) some (d) some (e the correct one: sentences have been and the remaining five d. Rearrange the parts 	 (a) of (c) where (a) be taken (c) the Arms/Mars 	

68.	What shall come in place of the blank in the given analogy?	(c) Building
	Painter: Painting:: Architect:	
	(a) Embroidery (b) Statue	
	(c) Building (d) Sculptor (e) Stone	
69.	What shall come in place of the blank in the given analogy?	(a) Doctor
	Engineering: Engineer:: MBBS:	
	(a) Doctor (b) Lawyer (c) Teacher (d) Actor	
	(e) Dancer	
70.	Based on the given analogies, find the odd one out.	(b) National Tree: Indian
	(a) National Anthem: Jana Gana Mana	N 7
	(b) National Tree: Indian Neem	Neem
	(c) National Calendar: Saka Calendar	
	(d) National Bird: Peacock	
	(e) National Animal: Royal Bengal Tiger	
71.	Select the most appropriate meaning of the given	(b) To do harm as done to
	phrase/idiom.	
	Tit for tat :	you
	(a) To reward people for the good done	
	(b) To do harm as done to you	
	(c) To make someone angry	
	(d) To take advantage of someone	
72.	Select the most appropriate meaning of the given	(a) To have talent in
	phrase/idiom.	gordoning
	Green thumb :	gardening
	(a) To have talent in gardening	
	(b) To have talent in painting	
	(c) To be envious	
73.	(d) To be angry Write a descriptive paragraph with the help of given pictu	
	(80-100 words) (3 Marks)	

Rough Work