GUARDIAN SCHOOL

Std: IX Date: 20/02/2024

FINAL EXAMINATION 2023-2024 Subject: MATHS

Time: 2 hr 30 mins Marks: 80

Answers to this paper must be written on the paper, provided separately.

You will not be allowed to write during the first 15 minutes. This time is to be spent in reading thequestion paper. The time given at the head of this paper is time allotted for writing the answers.

Answer all questions in Section I and any four questions from Section II

> The intended marks for questions or parts of questions are given in brackets [].

The paper consists of 4 number of pages.

Section I (Attempt all questions)

[15]

Question 1

Choose the correct option for the following questions.

- 1) Which one of the following is a correct statement?
 - a) Decimal expansion of a rational number is terminating
 - b) Decimal expansion of a rational number is non-terminating
 - c) Decimal expansion of an irrational number is terminating.
 - d) Decimal expansion of an irrational number is non-terminating and non-repeating.

repeating and non-repeating.
2) AB and CD are two equal chords with center O. If $\angle AOB = 50^{\circ}$, then $\angle COD$ is (a) 25° (b) 50° (c) 100° (d) 60°
3) The point on X axis which is equidistant from A (2,-5) and B (-2,9) is (a) (2,0) (b) (0,-7) (c) (3,-7) (d) (-7,0)
4)) The median of the data 25,34,31,23,22,26,35,28,20,32 is
5) Which line among the following is parallel to X axis? (a) $x+3=0$ (b) $2y+3x=0$ (c) $x-3=0$ (d) $y+3=0$
6) If the area of a

6) If the area of a square is same as the area of a circle, then the ratio of their perimeters in terms of π is

8) If $x \tan 45^{\circ} \cos 60^{\circ} = \sin 60^{\circ} \cot 60^{\circ}$, then x is equal to

(a) 1 (b)
$$\sqrt{3}$$
 (c) $\frac{1}{2}$ (d) $\frac{1}{\sqrt{2}}$

10) The value of $[2 - 3(2-3)^3]^3$ is (a) 5 (b)125 (c) $\frac{1}{5}$ (d) -125 11) $x^4 + \frac{1}{x^4} = 623$, then $x + \frac{1}{x} =$

(a) 27 (b) 25 (c)
$$3\sqrt{3}$$
 (d) $-3\sqrt{3}$

12) The factors of $x^3 - 7x + 6$ are (b) $(x^2-6)(x-1)$ (c) (x+1)(x+2)(x-3)

(d) (x-1)(x+3)(x-2)

13) The value of k for which the system of equations 2x+3y=5 and 4x+ky=10 has infinite number of solutions, is

(b) 3

14) Which of the following is not a criterion for congruence of triangles?

(a) SAS

(b) SSA

(c) ASA

15) If $x + \frac{1}{x} = 5$, then $x^2 + \frac{1}{x^2} =$ (a) 25 (b) 10 (c) 23

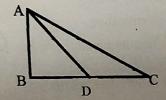
(d)27

Question 2

a) Determine the rational numbers a and b $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = a + 7\sqrt{5}$ b [4]

b) A sum amounts to Rs. 9680 in 2 years and to Rs 10648 in 3 years compounded annually. Find the sum and the rate of interest per annum.

c) In the given figure, triangle ABC is a right angled triangle with $< B = 90^{\circ}$ and D is the mid-point of side BC. Prove that $AC^2 = AD^2 + 3 CD^2$



[4]

Question 3

- a) In a two digit number, the ten's digit is three times the unit's digit. When the number is decreased by [4] 54, the digits are reversed. Find the number.
- b) Using distance formula show that the points A(-2,1), B(2,-2) and C(5,2) are the vertices of an isosceles right angled triangle.
- c) Using scale 1 cm = 1 unit on both axes, draw graph of lines 2x-y=1 and 2x+y=9. From the graph Find i) point of intersection of two lines.

ii)Area of the triangle formed by the lines with the x axis.

Section -II

(Attempt any four questions from this sections)

Ouestion 4

a) Solve for x, $\log (x+5) + \log (x-5) = 4 \log 2 + 2 \log 3$.

[3]

Solve simultaneously: $2x + \frac{x-y}{6} = 2$; $x - \frac{(2x+y)}{3} = 1$ [3]

i) $\frac{\cos 60^{\circ}}{\cos^2 45^{\circ}}$ - 3 tan 30° + 5 cos 90° c) Evaluate

ii)
$$\frac{\cos^2 45^\circ}{\sin 13^\circ} + \cos^2 52^\circ + \cos^2 52^\circ + \cos^2 38^\circ - 3 \tan^2 45^\circ$$
 [4]

Question 5

a) The difference between the compound interest and the simple interest on a certain sum at 10 % per annum for 3 years is Rs. 93. Find the sum

b) Construct a regular hexagon of side 5 cm.

- [3]
- In a circle of radius 17cm, parallel chords of lengths 30 cm and 16 cm are drawn. Find the perpendicular distance between the chords if both the chords are
 - (a) on opposite side of the center.
- (b) on same side of the center.

[4]

Question 6

a) Draw a frequency polygon for the data given below

[3]

Marks	10-20	20-30	30-40	40-50	50-60
No. of Students	10	25	12	8	5

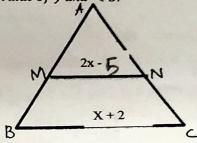
b) If
$$5\cos A - 12\sin A = 0$$
, find value of $\frac{\sin A + \cos A}{2\cos A - \sin A}$

[3]

c) In the given figure, M & N are mid points of sides AB and AC of triangle ABC.

[4]

- (i) if MN = 2x-5 and BC = x+2, find the value of x
- (ii) if $< AMN = (2y + 25)^{\circ}$ and $< B = (3y - 5)^{\circ}$, find the value of y and < B.



Question7

a) If
$$\log \frac{x-y}{2} = \frac{1}{2} (\log x + \log y)$$
, prove that $x^2 + y^2 = 6xy$

[3]

- b) Two cubes of edge 12 cm are joined end to end to form a cuboid. Find the volume and total surface area of the cuboid. [3]
- c) Using class interval 0-10, 10-20.

00				0 20,	consu	uci a ne	quency	lause sus	me Bive	II data		
20	4	27	36	5	40	20	25	13	9	10	15	20
18	9	8	16	20	26	5	34	2	31	16	11 .	

From the table find

- (a) Class boundary of second class.
- (b) Class mark of third class.
- (c) Class size of first class.

[4]

Question 8

a) Prove that
$$sin60^{\circ} = \frac{2tan30^{\circ}}{1+tan^230^{\circ}}$$

[3]

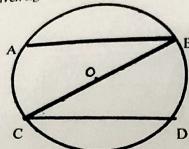
b) Construct a rhombus ABCD given that AB = 5cm, AC = 6cm.

[3]

- c) A person invests Rs 10000 for two years at a certain rate of interest compounded annually. At the end of one year this sum amounts to Rs.11200. Calculate
- (i) The rate of interest per annum
- (ii) the amount at the end of the second year.

[4]

- 5 [3]
- b) In the given figure AD is the diameter of a circle with center O. If AB is parallel to CD, Prove that AB = CD [3]

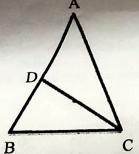


- c) From the four corners of a square piece of paper of side 24 cm, quarter circles with centers at the vertices of the square are cut off. If the radius of each of the quarter circle is 7cm. Find
 - (a) area of paper left.
- (b) perimeter of paper left.

[4]

- a) Solve the given simultaneous equations by elimination method $\frac{4}{x} + \frac{5}{y} = 3$; $\frac{6}{x} \frac{10}{y} = 1$ [3]
- b) Prove that $7 \log \frac{16}{15} + 5 \log \frac{25}{24} + 3 \log \frac{81}{80} = \log 2$ [3]
- c) In triangle ABC, AB= AC and D is a point on AB such that AD= DC= BC. Show that < BAC = 36°

 A



GUARDIAN SCHOOL FINAL EXAMINATION 2023-2024 Subs Georgeaphy

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- Answers to this Paper must be written on the paper provided sequencely.
- You will not be allowed to write during the first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this paper is the time allerned for mining the money.
- Attempt five questions in all from Section II.
- The intended marks for questions or parts of questions are given in Enacteds !
- This paper consists of -- 7 number of pages.

Section I

Attempt all questions from this Section.

Question 1

Choose correct alternative:

- [15]
- (i) Places near to the sea experiences moderate temperature is known as (a) Maritime influence (b) Continental influence (c) None of these
- (ii) Assertion (A): Most of the plains are formed by rivers and its tributaries. Reason ®: Northern plains are located in the north of the Himalayas.
 - (a) Both A and R are true and R is the correct explanation of A.
 - (b) Both A and R are true and R is the not correct explanation of A. © A is true but R is false.
 - (d) A is false but R is true.
- (iii) Which atmospheric layer reflects the radio waves back to the Earth?
 - (a) Mesophere (b) Troposphere (c) Stratosphere (d) Ionosphere
- (iv) Which is the longest day in Northern hemisphere?
 - (a) 21st March (b) 21st June (c) 23td September (d) 22nd December
- (v) Which winds prevail between 30° and 60° of latitudes in both the hemisphere?
 - (a) Westerlies (b) Trade winds (c) Local winds (d) Seasonal winds
- The distance between two lines of longitude is maximum at which latitude? (vi)
 - (a) Arctic Circle (b) North Pole (c) Tropic of Capricorn (d) Equator

	(vii) Which amongst the following is not a sources of Radioactive pollution?
	(a) Pesticides (c) Nuclear weapons
	(b) X-rays waste (d) Radioactive fallout from nuclear plants
	(viii) Effect of noise pollution are:
	(a) Reduce sleeping hours
	(b) Reduce productivity or efficiency of a human being
	(c) Affect the peace of mind and invades the privacy of a human being.
	(d) All the above
	(ix) International Date Line passes through
	(a) Bering Strait (b) Florida Strait (c) Gibraltar Strait (d) Malacca Strait
	which of the following volcano is known to be a dormant volcano?
	(a) Mt. Kilimanjaro (b) Mt. Vesuvius (c) Mt. Kenya (d) Mt. Nil
	Every country calculates Standard Meridian as the same
	Time?
	(a) 5:30 P.M. (b) 5:00 P.M. (c) 5:20 P.M. (d) 5:30 A.M. (xii) There are two statements
	(xii) There are two statements marked as Assertion(A) and Reason(R). Mark your answer as
	(a) Both A and R are true and R is the same t
	at the nut and it is the not seemed
	© A is true but R is false.
	(d) A is false but R is true.
	Assertion (A): The amount of moisture in the atmosphere is related to latitude.
	Reason ®: the capacity to hold moisture in the form water vapour is related to
	(xiii) Mohorovicic discontinuity separates
	(a) Sial and Sima (b) Crust and Core (c) Mantle and Crust (d) Core and Mantle
(wave can pass through solid, liquid and gases.
	(a) Push wave (b) Shear wave (c) Surface wave (d) All of these
(x)	v) Catskill range in USA is an example of mountain.
	(a) Residual (b) Fold (c) Block (d) None of the these

Std: Date

(a) Swez Isthmus

(b) Baltic Sea

(i) On the outline of world map mark and label the following:

(c) Indus River (d) Great Dividing Range (e) Labrador Current (f) Falkland Current (g) Atacama Desert (h) Canadian Shield (i) Llanos (j) Equatorial natural region in Africa (ii) Explain the following terms: 151 (a) Condensation (b) Normal Lapse Rate (c) Doldrum (d) Standard Time (e) Epicentre Section II (Attempt any five questions) **Question 3** (i) Give a single term for each of the following: [2] (a) Photosynthetic plants which can produce their own food themselves. (b) The process of transfer of food from one organism to the other in the biosphere. (ii) Why is the Standard Time considered necessary? [2] (iii) An amazing natural phenomenon occurs in the Northern Hemisphere mostly during summer solstice. However Southern Hemisphere experiences it during winter solstice on 22 December. The duration of this phenomenon depends on how far an area is from the Arctic circle. The Sun does not set below the horizon in these areas during summer solstice. There is a heavy inflow of tourists in such areas during summer to observe this phenomenon which in turn helps to boost the economy of these areas. [3] 3

[10]

- (a) What is this phenomenon called?
- (b) Why does not Sun set at night in such areas during summer solstice?
- (iv) Calculate the local time at Singapore (104 °E) when it is 6:00 p.m. at Greenwich.

(i) Students of class 9, Guardian school visited Geological Survey of India. They observe various types of rocks. Some of them were called as "primary rocks" and the other we called as "secondary rocks".

[:

[2

[2

[2]

[3]

- (a) As a student of Geography, name the primary and secondary rock.
- (b) Write the two examples of primary and secondary rocks.
- © Write the two characteristics of these rocks.
- (ii) Draw a well labelled diagram to show the interior of the Earth.
- (iii) Give one example of each:
- (a) Structural plain (b) Delta (c) Residual mountain (d) Old fold mountain
- (iv) Distinguish between Gutenberg Discontinuity and Mohorovicic Discontuinity.

Question 5

- (i) The Northern plains of India are aptly called the dust of Himalayas. It is one of the dense populated areas in the world. As one moves Eastwards the plain culminates into the large delta in the world.
- (a) Name the agent responsible for the formation of this plain.
- (b) Mention any two factors which are responsible for the dense population.
- (c) Mention any two factors that do not favour the formation uof deltas.
- (ii) Distinguish between the following:
- (a) Physical weathering and chemical weathering.
- (b) Primary and secondary wave
- (iii) Define the following term:
- (a) Dormant volcano (b) Extinct volcano
- (iv) Describe the earthquake zone of the world.

Question 6

(i) The Pacific Ocean, largest and deepest ocean in the world, is home to dynamic and intricate system of ocean current. These currents play vital role in shaping global weather pattern, influencing marine life and impacting the lives of millions of people living along its shores. It maintains balance of climate and ecosystem. As we continue to study and appreciate the power and significance of these currents, we gain a deeper understanding of the interconnectedness of Earth's oceans and the urgent need to protect them for future generations. [3]

(a) Harrie this two most ocean current formers in the Pacific Ocean (ii) Why rich fishing grounds are bound in the areas where cold and warm currents more (ii) Equatorial region extends between (F-14) north and worth of the Equator. It covers certain neme of Asia, South America and Africa. Brand on the information answer the following (a) Which pans of Asia are included in Equatorial Region. 127 (b) Which parts of South America are included in Equatorial Region. (iii) State the location and extent of Tropical Grassland. 121 (iv) Name the following: (a) The Grassland in North of the Equator. [3] (b) The Grassland in Brazilian Highland. (c) Natural region in India. Question 7 (i) Due to the spherical shape of the Earth, the tilt of the Earth on its axis, its rotation and the presence of an atmosphere on the Earth, the insolation distribution on the Earth is not uniform, [2] (a) Explain why different places receive different amount of hear? (b) What is altitude? How is temperature of atmosphere and altitude interrelated? (ii) Give reason for the following: [3] (a) Temperature decreases from the Equator to the poles. (b) Land is heated and cooled faster than the sea. C Various weather phenomena are confined to the troposphere. (iii) Give a technical term for: [3] (a) Heat is radiated by the Earth in the form of long waves. (b) Transfer of heat in a liquid or gas. (c) The upper limit of Mesosphere. (iv) State the layers of atmosphere. Write the two characteristics of Stratosphere. [2]

- (i) Dated-05.06.2023: Indian Meteorological Department (IMD) said that Summer Monsoon onset over India's Southern Kerala coast may be delayed by two to three days due to the reduction of cloud cover caused by the formation of cyclonic circulation in the Arabian Sea. The Monsoon, which delivers nearly 70% of India's required rainwater, is crucial to the country's agriculture industry.
- (a) Why does India receive summer monsoons between June to September month?

- (b) India lies between which pressure belts? Name the permanent winds seen between these belts.

 (ii) Draw well labelled diagram of atmospheric pressure belt.

 (iii) Name the regions where the following local winds blow:

 (a) Chinook

 (b) Loo

 (c) Mistral

 (iv) Distinguish between Absolute Humidity & Relative Humidity.

 [2]

 Question 9
 - (i) Rashi's father working as an Engineer in leather factory got an accommodation around his factory in Kanpur which saved his time and money spent on travelling from his house to his work place. This happiness was short lived. Rashi started to fall sick quite often due to respiratory disease she had developed recently.

 [3]
 - (a) What could be the reason for Rashi's illness?
 - (b) What are the different types of air pollutants?
 - ©What harm can this type of pollution lead to humans?
- (ii) An oil tanker ship sailing from the coast of Saudi Arabia over turned near the coast of Mumbai. Few days later sea gulls around were found to be dead floating on surface of the sea.
- (a) Mention the reason for the death of sea gulls.
- (b) What kind of pollution is it?
- (c) What all harms does this kind of pollution pose?
- (iii) What is radioactive pollution?
- (iv) Why are non-biodegradable pollutants harmful?

Std: IX Date: 13-2-24

GUARDIAN SCHOOL

FINAL EXAMINATION 2023-2024 Subject: HISTORY-CIVICS

Time: 2 Hrs Marks: 80

Answers to this paper must be written on the paper, provided separately.

You will not be allowed to write on the paper, provided separately.

You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. in reading the question paper. The time given at the head of this paper is time allotted for writing the answers.

> Answer all questions in Part I

A total of five questions to be attempted from Part II [two out of three questions from section A and three out of a from section A and three out of five questions from section B

The intended marks for questions from section B

The intended marks for questions or parts of questions are given in brackets [].

	PART	LI	
Question 1	(Attempt all the questio	ns from this section)	
Choose the correct Do not copy the qu	answer to the questions fr estions write the correct a		[16]
service to hur a] Hazrat Ali	aint believed in drawing clomanity?	ose to God through renu c] Hazrat Khan	
a] Agastya	b] Vishwamitra. c]	Parashurama. d] V	Valmiki.
3. Name the older a] St. Francis	est European Church in In- Church b] St. Vasco Chur	dia. ch c] St. Francisco Ch	urch d] St. Anglican Church
4. Name the coural Supreme Co	rts which are competent to ourt b] High Court c] Both	o issue writs. h a and b d] None of the	ne above
any mortar cal	led?	with the stone slabs,	resting on each other withou
a] Megaliths	b] Tirukkural	c] Couplets	d] Malaiyar
6. The court issue a) policies	b) petitions	the fundamental right c) orders	s of its citizens. d) writs
c] Various Ary	ical and cultural organisa an kingdoms.	d] All of	vilife and moral principles. the above.
a) Right to Educe c) Right to priva		ll being of individuals Right to Equality Right to Information	5.

the pool at the Great Bath water	rtight?
9. What made the pool at the Great Bath Water	rtar lined with bitumen and gypsum h (a) and (b)
a] Burnt bricks c] Mud brick platforms d] Bot	h (a) and (i) hitumen and
c] Mud brick P	(b) and gypsum
10. The Tirukkural had illi	
10. The Tirukkural lad Inbam a] Aram, Porul and Inbam Tirukkural and Tiruvalluv	blVang
a] Aram, Porul and Inbam c]Tolkappiyam, Tirukkural and Tiruvalluv	ar d] None of the above
nort of the	d] None of the above.
11. The Bhagvad Gita is a part of the	
a] Vishnu Purana	c) Mahahhamu
: a part of the doc	d] Ramayana
12. Which of the following is a part of the defi	illion of a Constitution
a] A comprehensive document	1 - 1 OCI Of mul
a] A comprehensive details all	b] A set of rules of governance d] All of the above
	7344
13. Dhamma stands for	
a] Moral law b] Empty Rituals.	c] Chastity dl Adherence
	1 - Lancicine
14. The literary source that refers to the previous	is births of Buddha is least
a] Panchatantra b] Jatakas c] Ase	cop d] Angas
	1 540
15 is a country where socialism is	predominant.
a] USA b] UK c] Canada	d] China
The state of the s	oj omna
16. Which of the following is known as 'the fir	'st testament of months 419
a]Sama Veda b] Rig Veda	or designment of manking?
c]Yajur Veda d]Atharva Ve	do
cjrajur veda djAmarva ve	;ua
and an 2	
estion 2	[14
merce transmitted the the court	
wer the following questions in oneortwo sen	tences.
1 When did Daisses 1 1	4 4 4 4 1

Qu

Ans

- 1. Why did Rajaraja undertake a naval expedition against Ceylon and Maldives?
- 2. Mr Sheshan is appointed as the Chief Election Commissioner. What according to the Constitution will be his age of retirement from this post? Who appoints the Chief Election Commissioner?
- 3. Which Sufi Saint's tomb is enshrined in the Ajmer ShariefDargah? What was his main belief?
- 4. Mrs Radhika is denied permission to enter the temple premises. Which right has been violated in her case? What step shows the step shows t in her case? What step she can take further in this case?
- 5. Why Mira Bai was so popular?
- 6. Describe the term Constitution.
- 7. Mention any two steps taken by Akbar to promote better understanding between the Hindus and the Muslims.

(A total os ~	
section A and a question	
SECTION Three out of g. PART II	rom
TON A: question Port II two out of three	
SECTION A: Question 3 With referent	
With reference	
1. Name et Constituti	
citizenshim of India	fine Single
Question 3 With reference to Constitution of India explain: 1. Name the body that framed our Constitution? December 2. Explain the body that framed our Constitution?	(3)
Write four E. Write four E. What is more	[3]
Question 4 With With With A Property of January 26th	[4]
2. Explain the historical significance of January 26th. With reference to the Flore: Output Description of the four fundamental output Discription of the four fundamental output Discription of the flore: Output Discript	
Differ Ciccio	(0)
2. What is the composition of the Election Commission? Question 5 With reference to the Election Service and indirect elections.	[3]
3. Give four reasons to differentiate between direct and indirect elections. With reference to Local self-gove.	[3]
Question 5 With a compared to differentiate between the property of the Election Commission?	[4]
TOICING TO T	
	(21
With reference to Local self-government answer the following: 1. Explain the meaning of Gram Panchayat, ZillaParishad and PanchayatSamiti 3. Differentiate between Municipal Committee	[3]
3. Differentiate between 16 ZillaParishad	[3]
Municipal Commission of Municipal Commission	[4]
SECTION B:	,
Omen	
Question 6	
With reference to Sangam age and Gupta age answer the following questions: 1. Write short note on Thirukkural	
1. Write short note on Thirukkural.	
2. Who was Arvabhatta? W.	[3]
2. Who was Aryabhatta? What were his main achievements? 3. Who was Kalidasa? What were his main achievements?	[3]
3. Who was Kalidasa? What was his role in Literature during the Gupta Period?	? [4]
Question 7	
With reference to Reformation and Industrial Revolution answer the following:	
1. Contribution of Martin Luther	
2. Describe Counter Reformation.	[3
3. Differences between Socialism and Capitalism	
uestion 8	[4
Vith reference to Vedic Civilization Explain.	
1 Importance of Enics	
2 What is the role of Iron implements for the development	
2. What is the role of Iron implements for the development and growth of people of the development and growth and g	ple during Ved
Defiou?	
3. Any four Allied Vedic Literature.	

Question 9 and Buddhism and Mughai s	10
Question 9 With reference to Jainism and Buddhism and Mughal Empire answer the following: 1. Short notes on Angas.	
1. Short notes on Angas. 2. Short notes on Angas. 2. Short notes of the greatest Mughal ruler of In.	
2. Short notes on Angas. 3. Akbar is one of the greatest Mughal ruler of India, justify the given statement by approximation 10.	f21
3. Akbar is one and a justify the given state	[3]
examples.	ropriate
Question 10 Chala Administration and Delhi Sul	[4]
With reference to Chola Fleshwara Temple 1. Features of Brihadeshwara Temple 1. Teatures of OutbuddinAibak.	
	[3]
2. Political history of Raja Raja I and Rajendra I. 3. Political history of Raja Raja I and Rajendra I.	[3] [4]
	(ד)

STD-I	X
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GUARDIAN SCHOOL

TIME THE MARKERING

FINAL EXAMINATION 2023-24

DATE: 14-02-24

SUB: BIOLOGY

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during first 15 minutes. This time is to be spent in rending the n paper. question paper.
- The time given at the head of this Paper is the time allowed for writing the answers.
- Section A is compulsory. Attempt any four questions from Section B.
- The intended marks for questions or parts of questions are given in brackets [].
- This paper consists of 6 number of Pages

SECTION A

(Attempt all questions from this section.)

Question 1

- Which of the following controls all biological activities of a cell? i.
 - a) Protoplasm
- b) Cell wall
- c) Nucleus
- d) Golgi apparatus

- Which muscles act involuntarily? ii.
 - P) Straited muscles
 - Q) Smooth muscles
 - R) Cardiac muscles
 - S) Skeletal muscles
 - a) P and Q only
- b) Q and R only
- c) Q and S only
- d) P and S only

- Floral stalk is technically termed as: iii.
 - a) Petiole
- b) Peduncle
- c) Pedicel

d) Funicle

- Generative nucleus divides forming iv.
 - a) 2 male nuclei
- b) 3 male nuclei
- c) 2 female nuclei
- d) 3 female nuclei
- The majority of the water from the indigestible food is absorbed in the V.
 - a) Stomach
- b) Food pipe
- c) Pancreas
- d) Large intestine

[15]

	vi. Assertion: Commu	nicable diseases are calle	d infectious diseases.	
	Reason: Cancer is	a communicable disease,		
	a) Both assertion as	nd reason are true and rea	son is the correct explanation	on of assertion.
	b) Both assertion as	nd reason are true but reas	son is not the correct explan	ation of assertion.
	c) Assertion is true			
	d) Assertion is false	but reason is true		
	vii. The total number of	cervical, thoracic and lur	nber vertebrae comes to	
	a) 24	b) 33	c) 37	d) 27
V	iii. An example of disac	charide is:		
	a) Fructose	b) glucose	c) galactose	d) malto
i	x. Respiration differs fi	om the process of combu	stion in the fact that	
	a) All the energy stor	red in glucose in released	at once due to combustion	
	b) All energy stored	n glucose is gradually rel	eased due to combustion	
			roduced due to combustion	,
		act as the combustion sul		
X	. The breakdown of py	ruvate to give carbon di o	xide, water and energy takes	s place in
	a) Cytoplasm	b) Mitochondria	c) Chloroplast	d) Nucleus
xi.	Which of the following	g immunity is present fro	m our birth?	
	a) Innate immunity	b) Active immunity	c) Passive immunity	d) Acquired imm
xii.	Use of disposable syri	nges for injecting medicir	nes, etc, is specially advised	to prevent
	a) Poliomyelitis	b) Mumps		d) AIDS
xiii.	The layer of the skin th	nat provides protection ag	ainst bacteria, as well as che	emical and mechanica
	injuries is the			
	a) Dermis	b) Epidermis	c) Sebum layer	d) Subcutaneous l
xiv.	Except one all other are	e fat soluble vitamins		
	a) A	b) D	c) E	d) C
XV.	From among the situation	ons given below choose t	he one that prevents both au	itogamy and
	geitonogamy			
	a) Monoecious plant bea	aring unisexual flowers		
	b) Dioecious plant beari		lowers	
	c) Monoecious plant wit			
	d) Dioecious plant with			
	d) Dioccious punt	A STATE OF THE STA		

1			
	3) The Line		
	a) The biocatalyst which alters the rate of a chemical b) The part of protoplasm enclosed by the nuclear material of the protoplasm enclosed by the nuclear material enclosed by		*
	c) The blood vessel start enclosed by the	l reaction	[5]
	d) A step of cells to carries oxygeness to	embrane.	
	c) The blood vessel that carries oxygenated blood fi a) A step of cellular respiration that occurs in the cy	om lungs to the heart.	
	d) A step of cellular respiration that occurs in the cy resistance.	toplasm of the cell.	
ii.	e) The practice of artificially introducing the germs resistance. Complete the paragraph by filling the blanks:	or germ substance into the body for development	oping
	A TO FILL TO A CO.		
	COTSISIS OF a L		[5]
	The forelimb consists of a long bone (a) and the outer (c) in the lower arm (d) (e) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d) in palm and fourteen photons in the lower arm (d)	in the arms, two long bones, the inner(b)	
	in palm and fourteen phalanges in f	carpal bones in wrist, five long	
iii	pilalanges in t	inger.	
	Given below are sets of terms. Rewrite them in underlined.	logical sequence beginning with the ter	m that is
			[5]
	a) Sacrum, coccyx, cervical, lumbar, thoracic		
	b) Class, Phylum, order, Genus, Family		
	c) Large intestine, Stomach, Mouth, Small intestin	e, Oesophagus	
	d) Bronchi, Nose, Larynx, trachea, pharynx		
	e) Inhalation, Cellular respiration, Tissue respirati	on, Gaseous transport, Exhalation,	
v.	Identify the ODD term in each set and name th	e CATEGORY to which the remaining	g other
	belongs:		[5]
	a) Chloroplast, Tonoplast, Chromoplast, leucoplast	st	
	b) Malaria, Amoebiasis, Taeniasis, Hepatitis		
	c) Parenchyma, Collenchyma, Xylem, Sclerenchy	yma	
	d) Thallophyte, Annelida, Mollusca, Arthropoda		
	e) Injection needles, polythene covers, Dried leave	ves, Mobile batteries.	rel
			[5]
1.	Match the following:	B	
		1) Absorbs carbon di oxide	
	a) Protective covering of the ovule	2) Integuments	
	L) Vacuole	3) Ribosomes	
	· - ANTITIA	4) Cell sap	
	1) Potassium nyur	5) Dead cells	
	e) Lysosome	6) Centrosome7) Muscle cells	
		/) Muscle cens	

irs

SECTION B

(Attempt any four from this section)

Question 3

V.

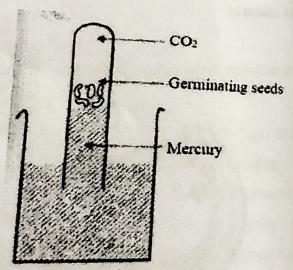
	i. Define term Germination.	
i	IL State location and function of gene	[1]
	Name two cell organelles which contain their own	[2]
'n	The state of the s	[2]
,	Draw a neat labelled diagram of plant cell and label the following: a) The cell organelle composed of cellulose	[2]
	a) The cell organelle composed of cellulose	[3]
	b) The cell organelle which semipermeable	
	c) The cell organelle give turgidity to the plant cells.	
Qu	estion 4	
i		
	Denogamy.	
Ĩ.	and infection of concincing the	[1]
III	(Position of diaphragm)	[2]
iv.	Memion two activities of red cross.	[2]
V.	Draw a neat labelled diagram of longitudinal section of maize grain and label the following	[2]
	a) Aleurone layer	[3]
	b) Coleoptile	
	c) Coleorhiza	
Ques	tion 5	
Ĺ	Define Incubation period.	[1]
ii.	State the location and function of Pleural fluid.	[2]
iii.	Write any two characteristic of phylum Nematoda.	[2]
iv.	Give reason for Landfills are coming up fast near large cities.	[2]

Complete the following table by filling up the blanks numbered 1 to 3

[3]

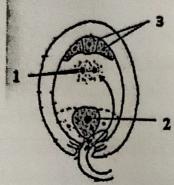
Secretion	Enzyme secreted		
Gastric juice		Substrate	Product of digestion
hydrochloric acid	1	Proteins	2
Pancreatic juice	Steapsin/lipase		
Jaice	7-30	3	Fatty acid and glycerol

i.	What is Incomplete flower?	
ii.	Give reason Mariante flower?	
iii.	Give reason -Maize fruit is considered as a maize grain. Distinguish between Antiseptic and the	[1]
iv.	Distinguish between Antiseptic and disinfectant. Taking the examples of the considered as a maize grain.	[2]
	Taking the examples of whole grain atta, fruit and green leafy vegetables, describe how roughage. The air	[2] e is
V.	The given diagram shows an experiment	[2]
	The given diagram shows an experiment performed on germinating seeds. Study the same and answer the questions that follow:	
		[3]



- a) What does the experimental set up demonstrate?
- b) Write the chemical reaction for this process.
- c) How you confirm the presence of carbon dioxide in above process.

ü.	State the location and function of cardiac sphincter. Differentiate between Leucoderma and the control of the cardiac sphincter.	
iii.	Differentiate between Leucoderma and Au	
iv.	State the location and function of cardiac sphincter. Differentiate between Leucoderma and Albinism (Type of disorder). State how the nitrates in the soil get converted to nitrogen see.	0
v.	Differentiate between Leucoderma and Albinism (Type of disorder). State how the nitrates in the soil get converted to nitrogen of the atmosphere. Given below is a diagrammatic representation of the process that occurs in flowers. Study the	[2]
	diagram and then answer the questions that can process the atmosphere.	[2]
	that follow:	[2]
	3	for



- a) Name and define the process
- b) Define triple fusion

i.	What is Antibiotics?		[1]
ii.	State the location and function	on of Parotid gland.	[2]
iii.	Name the nutrients whose de	ficiencies cause the following diseases in humans:	[2]
	a) Kwashiorkor	b) Pernicious anaemia	
iv.	How is outer surface of skin	made water proof?	[2]
	a de de la companyanti	ng gageous exchange in a structure in the human body. Answ	wer the
v.	Study the diagram represents	ng gaseous exchange in a structure in the human body. Answ	[3]
	following questions:	191	1

- a) What is the biological term for this structure?
- b) Where is this structure present in the human body?
- c) Name the gases A and B that are exchanged.

STD: IX Date: 13/02/23

GUARDIAN SCHOOL FINAL EXAMINATION 2022-2023 Sub: GEOGRAPHY

Time: 2 Hrs Marks: 80

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of this paper is the time allotted for writing the answers.
- Section A is compulsory. Attempt any five questions from Section B.
- The intended marks for questions or parts of questions are given in brackets [].

SECTION A

(ATTEMPT ALL QUSTIONS)

QUESTION 1

Choose the correct alternative: (10)XI. Global Warming is a result of an imbalance of _____ on earth. Carbon b. Nitrogen c. Helium d. Argon 2. The diameter of the earth decreases towards a Poles b. Equator c. Higher Latitudes 4. Longitudes 3. This layer lies above the Thermosphere. a. Troposphere b Stratosphere c. Ionosphere d. Exosphere 4. Electrically charged particles called create a sheet of display like Aurora Borealis. a. Ozone b lons c. CFC d. Jet stream Most volcanic eruptions take place near: a. Coastal areas b. Deserts c. Plate margins d Mountain 6. The process in which the loose grains of sediments are converted into rock a. Cementation b. Intrusion c. Lithification d. Oxidation 7. Taj Mahal is the turning yellow due to: a Global Warming b. Acid rain c. Eutrophication d. Bio-magnification 8. Which of the following is not true about noise pollution? a. causes high blood pressure b. Insomnia c. Hearing loss d. Cancer 9. Which type of rainfall occurs on the windward side? a. Monsoonal b. Convectional c. Orographic d. Cyclonic 10. The other name of crust is ___

QUESTION 2

Define the following: (10)

a. Biosphere b. Atmosphere d. Hydrogen

1. Oxidation

Ozone layer

3. Relative Humidity

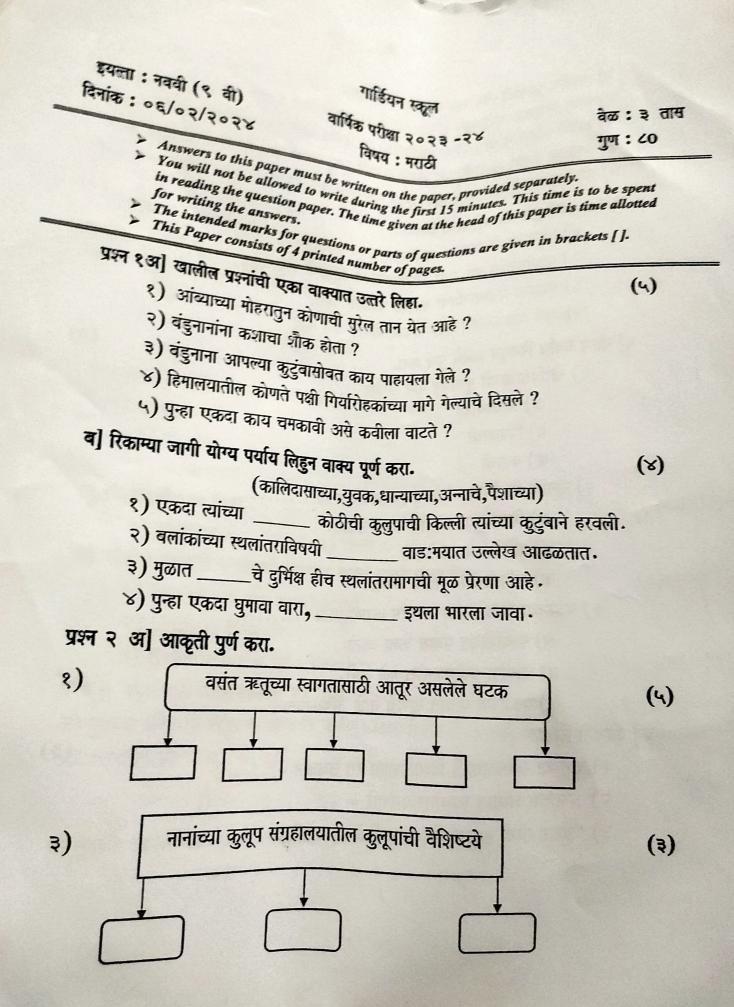
134. Ocean Currents

. Global Warming

On the outline of world map, mark and label the following: (10)2. Drakensberg 3. Scandinavian highlands 4. Canadian Shield 5. Caspian Sea 6. Gulf of Lawrence 7. Brazilian Highlands 8. Central Japanese Alps 9. Great Dividing Range 10. Indian Ocean SECTION B (ATTEMPT ANY FIVE QUESTIONS) QUESTION 4 a. Give one point each how atmosphere and temperature make earth a habitable planet. Db. Draw a neat labelled diagram to show Bedford Level experiment. (2)(2)c. Give three points of difference between latitudes and longitudes. (3) x d. Calculate the time at Singapore (104° E) when it is 6.00 pm at Greenwich. (3)QUESTION 5 State any two characteristics of Revolution. (2)b. Write two points of difference between core and Mantle. (2)c. There are two transitional zones between the two consecutive layers of the interior of the earth. Name them and state their chief characteristics. (3)d. Give geographical reasons: (3)i. The period of twilight and dawn increases pole wards. ii. The asthenosphere is in semi - melted state. **QUESTION 6** a. Give any two points of difference between Young Fold Mountains and Old Fold Mountains. (2)b. State any two characteristics of Metamorphic Rocks. (2)x c. Explain briefly any three landforms created by volcanoes. d. Give geographical reasons: (3)i. igneous rocks are also called primary rocks. (3)ii. Alluvial plains are regarded as granaries of the world. QUESTION 7 a. What is known as exfoliation? Name the process involved in it. b. What is biological weathering? (2)b. What is biological vical weathering between Mechanical and Chemical weathering. (2)(3)

QUESTION 3

d. Give and	
d. Give geographical reasons: i. Chemical weathering occurs in moist and cold climate. OUESTYON a	-
ii. Vegetation prevents disintegration of rocks. QUESTION 8	
Olikstyon a disintegration of rocks.	(3)
QUESTION 8	
a. Define:	
Hydrosphere in Ebb	
V. DADISIN #L. A. I	
State any three characteristics of Labrador current. State one characteristic feature of each O	(2)
d Share the three characteristics of Labrada which can be divided	
d. State one characteristic feature of each Oyashio Current and Gulf stream.	. (2)
QUESTION 9 QUESTION 9	(3)
Gulf stream.	(2)
a. In which laves a	(2)
speenhauer of atmosphere do all the word	
a. In which layer of atmosphere do all the weather conditions occur? Name importations b. Give two points of difference between law 11.	
C D Points of difference between	I DI
b. Give two points of difference between land breeze and sea breeze. d. Give geographical	(2)
	(2)
i. We find it different to the stanting.	(3)
i. We find it difficult to breathe when we climb mountains.	(3)
QUESTION 10 Wi. A desert region has a high range of temperature than a forest region.	
QUESTION 10	
What is cyclonic rainfall?	
Name four chief forms of condensation. C. Give geographical research	
Circa rour chief forms of condensation	(2)
	(2)
Convectional rainfall	
Convectional rainfall occurs every day in equatorial region. The total volume of water in the oceans and seas remain constant. Define precipitation. Explain briefly the three forms.	(3)
Define was in the oceans and seas remain cond	
Define precipitation. Explain briefly the three forms of	
Define precipitation. Explain briefly the three forms of precipitation. QUESTION 11	(3)
Actoriol II	(3)
a. Explain what is madianated:	-
- Property Mildle IV IMMOSCHING WOLLD'S	
b. What is known as smood What have in the	(2)
 b. What is known as smog? What harm is done by smog especially in winters. c. State any two effects each of soil pollution on human beings and environment. d. State any three measures to save energy. 	(2)
	(2)
d. State any three measures to save energy.	(3)
Short Silver	(3)
	(-)



बा खालील प्रश्नांची तीन-चार वाक्यात लिल	
ब) खालील प्रश्नांची तीन-चार वाक्यात उत्तरे लिहा. १) वसंत ऋतूच्या आगमनाने मृष्टित होणारे वदल कवितेच्या आधारे तुमच्या ३) मानवी जीवन व पक्षी जीवन यांच्यातील सारखेषणा आधारे तुमच्या ३ ३) आपल्या देशात शांती निर्माण व्हावी यासाठी पुन्हा एकदा काय खावे (अर्थे के काय खावे काय खावे काय खावे काय खावे के काय खावे काय	
2) मानवी जीवन व पक्षा जावन याच्यातील विकास	
 अापल्या देशात शांती निर्माण व्हावी यासाठी यासाठी आधार तुमच्या : 	(९) থব্যান ভিক্
४) बंडूनानांच्या तोंडाला आपीआप कुलूप वस्तुपा प्रकृता प्रकृता शकात	माहिती लिहा
	तुम्हाला वाटते.
१) बंडूनानांच्या तोंडाला आपोआप कुलूप वेगले.	नेचे वर्णन करा.
a) मध्यांच्या स्थलांतराचा अभ्यास कर् ^{भ पा} ले.	(%)
१) बंडूनानाच्या ताडाला आपाआप कुलूप वसले. २) पक्ष्यांच्या स्थलांतराचा अभ्यास करणे ही सोपी गोष्ट आहे.	
४) वाळे अडकवलेले पक्षी मोकळे सोडले जात नाही.	
व। याग्य प्रयाय निवडन वाक्य ५७ करा.	
१) मोरिपसासारखी मुलायम पाने आहेत	
अ) लिंबोणीची	(\$)
व) पिंपळाची	
क) वडाची	
२) नानांनी तिजोरीस घंटेचे कुलूप लावले व ती	
अ) निजायच्या खोलीत नेऊन ठेवली.	
व) बिगचेत नेऊन ठेवली	
क) स्वंपाकघरात नेऊन ठेवली.	
३) पक्ष्यांच्या स्थलांतराचा अभ्यास करण्यासाठी	
अ) पक्ष्यांसोवत प्रवास केला जातो	
व) पक्ष्यांना प्रयोगशाळेत नेले जाते.	
क) पश्यांच्या पायान करे	
क) पक्ष्यांच्या पायात खुणेचे वाळे अडकवितात.	(\$)
	(4)
१) ऋतूच्या स्वागतासाठी दिशादिशांना रंग उधळले =	
र गाना सामारा स्थलाता कार्	
३) 'उजाड उघडे माळरानहीं' या कवितेच्या कवियत्री =	

प्रश्न ४ अ] योग्य जोडया जुळवा.		
अ गर		(8)
१) मातीत माती एक 🚃	'ब' गट	
) पाज रक्तात किया	करणे	
२) नवानमाणाची ज्यान	न) नम्मिन गोव्याचा ।	
) पुसन राक्तीच के	6 2 201171 1011	
ज जानाया शब्द लिहा.	क) मातीने भदमाय गर्माड) माणसांत उत्साह निर्माण व्हावा	(\$)
१) सरेल =	३) पांढरा =	
क] अशुध्द शब्द शुध्द करून वाक्ये पुन्हा लिहा.	3) 4164	(\$)
े तथ नाल्स्यापवा दश नान्		
२) प्रथम त्यांनी अक्षरि कुलूप लावले		
३) सूर्य दकशिणेकडे झुकू लागला.		
प्रश्न ५ अ] खालील वाक्प्रचारांचा वाक्यात उपयोग		(\$)
१) घुस्सा होणे	करा.	
२) दंग होणे		
३) नजरेस पडणे		
ब] विलध्दार्थी शब्द लिहा.		(\xi)
१) अविश्वास x २) खाली x	३) सापडणे 🗴	(
क] खालील वाक्याचे मराठीमध्ये भाषांतर करून वा	क्ये पुन्हा लिहा.	(\$)
१) Books are my best friend.		
२) Unity is Power.		
3) Experience is best Teacher.		
ाश्न ६ कोणत्याही एका प्रश्नावर पत्र लिहा.		(6)
भ) तुमच्या परिसरात होणाऱ्या अस्वच्छ पाणीपुरवट	ज्याची तक्रार करणारे पाणीपरव	
मधिकाऱ्याला पत्र लिहा.		75 5 538
किंवा		

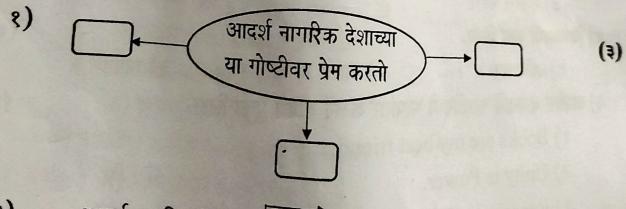
ब) तुमच्या आज्जी-आजोबांना तब्येतीची विचारपुस करणारे पत्र लिहा.

प्रश्न ७ खालील उतारा वाचुन त्यावर आधारीत आकृत्या सोडवा व पाच प्रश्ने तयार करा.

अम्मतील तरच देश प्रगती करतो. एक आदर्श नामिक आदर्श, महन्दी कोणत्याही देशाच ना ... क्या संपत्ती असतात. जर देशाचे नागरिक आदर्श करती. एक आदर्श नागरिक आदर्श करती. संस्कृती, इतिहास अस्त आणि सज्जन असतील तर - अपन्या देशाची संस्कृती, इतिहास आणि भूमिशी प्रेम करती. अदर्श मार्गावर चालणारा असता. नागरिकाच्या मनात देशप्रेम भरलेले असते. एक चांगला नागरिक स्वच्छेने नियमांचे पातन करती. और श्री नागरिकाच्या मनात दराहरा राष्ट्राच्या उन्नतीसाठी सकारात्मक योगदान देतो. आदर्श नागरिक राष्ट्र उत्थानाच्या कार्यक्रमात उत्सहरने राष्ट्राच्या उन्नतीसाठा तपनाः सामील होतो. तो समाजाच्या आदर्श मूल्यांना सन्मान देतो आणि समाजात असलेल्या कुरिती समाज सामील होतो. ता समाजान करण्यासाठी लोकांमध्ये जागरुकता निर्माण करतो. एक आदर्श नागरिक हाच देशाची शान असतो. तो सर्वांशी प्रेम करतो आणि समाजात असलेले वाईट लोकांचे सत्य सर्वांसमोर आणतो. म्हणून आपण सर्वांचे कर्तव्य आहे की आपण देशाचे आदर्श नागरिक बनायला हवे आणि देशाविषयी आपती जवाबदारी समजून देश सेवेचे कार्य करायला हवे. आपली संस्कृती आणि इतिहास कायम ठेवण्यासाठी एकमेकांशी प्रेम आणि बंधुकीने राहायला हवे. स्वच्छता, अहिंसा, प्रेम, भाऊ बंधुकी, राष्ट्रप्रेम आजि दयाळू हृदय हे एका आदर्श नागरिकाचे प्रमुख गुण आहेत.

अ) पाच प्रश्ने तयार करा. (4)

ब) आकृत्या पुर्ण करा.



7) आदर्श नागरिकाचे (२) प्रमुख गुण (4)

प्रश्न ८ कोणत्याही एका विषयावर सविस्तर निबंध लिहा.

१) माझी परीक्षेची तयारी

२) जेव्हा मला सुटटी असते....

३) निसर्ग आणि पक्षीजीवन