



GUARDIAN HIGH SCHOOL & JR. COLLEGE

FIRST SEMESTER EXAM (2023-24)

Std- X

Subject : Mathematics 1

Marks- 40

Date-31/10/2023

Time-2 hrs.

Q1.A) Four alternatives choose the correct alternative and write the alphabet of it

4

i. If $a = 2, d = 2.5$ then $t_4 =$ _____
a)4 b)4.5 c)5.5 d)9.5

ii. If a share is at premium, then _____
a) Market value > Face value b) Market value = Face value c) Market value < Face value
d) Market value \leq Face value

iii. What is the value of D if the equation $x+y=3; 3x-2y=4$ are solved by crammers method? _____
a)5 b)1 c)-5 d)-1

iv. What is the value of discriminant (Δ) for the quadratic equation $x^2 + 7x - 1 = 0$?
a) -53 b) 53 c) 35 d) -35

Q.1 B) Solve the following sub question. (any 4)

4

i. Factorise the quadratic equation $(x+5)(x-4)$.

ii. A coin is tossed .Find the probability of getting a head.

iii. Find the common difference of the given A.P

a. 4,1, -2,-5

iv. Write the first terms of A.P whose first term is -7 and common difference is $\frac{1}{2}$

v. Four frequencies of a data are 25,45,50, x .If $\sum f = 150$ then find the value of x .

Handwritten calculations:
 $3 - (-2) = 5$
 $3 + 2 = 5$
 $4 = 5$

Q2. Complete the activity (any2)

i.A card is drawn from a well shuffled pack of 52 playing cards .Find the probability of the event ,the card drawn is a red card .

Solution :

Suppose "S" is the sample space

$n(S) = 52$

Event A :Card drawn is a red card

Total red cards = _____ hearts + 13 diamonds

$n(A) =$ _____

$P(A) = \frac{n(A)}{n(S)}$ formula

$P(A) = \frac{26}{52}$

$P(A) =$

Handwritten calculations:
 $1 - \frac{1}{2} = \frac{1}{2}$
 $3 - 2 = 1$
 $2 - 3 = -1$
 -5

ii. Complete the table

Total investment (Rs)	Quantity of shares	Market value (Rs)	Face value (Rs)
150000		50	100
150000	75		1000
150000		2500	1500
150000		500	500

iii. Complete the table to draw the graph of the equation $2x - y = 7$

x	0		3	
y		-3		5

Calculation :

Q2.B Solve the following questions (any 4)

8

i. Solve the quadratic equation by factorization method
 $5x^2 = 4x + 7$

ii. Decide whether the following sequence is an A.P :if so ,find the 20th term of the progression .
 -12, -5 ,2,9,16,23,30

iii. Find 18% GST on a wrist watch belt worth Rs 586.

iv. if $L = 10$, $f_i = 70$, $f_0 = 58$, $f_2 = 42$, $h = 2$, then find the mode by using formula

Q3.A Complete the following activity (Any one)

3

i. Complete the following tables

Age group (in yr)	No of person	Measure of central angle
20-25	80	
25-30	60	
30-35	35	
35-40	25	
total		

ii. Complete the following activity to find the value of $\alpha^2 + \beta^2$ and $\alpha^3 + \beta^3$ of

$$y^2 - 2y - 7 = 0$$

$$\alpha + \beta = \underline{\hspace{2cm}}$$

$$\alpha \cdot \beta = \underline{\hspace{2cm}}$$

$$\alpha^2 + \beta^2 = \underline{\hspace{2cm}} \dots \dots \dots \text{(formula)}$$

$$= \underline{\hspace{2cm}} \dots \dots \dots \text{(values)}$$

$$\alpha^3 + \beta^3 = \underline{\hspace{2cm}} \dots \dots \dots \text{(formula)}$$

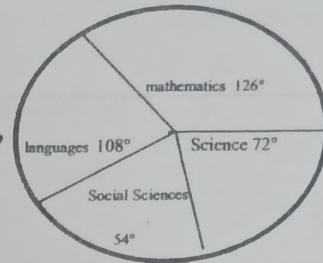
$$= \underline{\hspace{2cm}} \dots \dots \dots \text{(values)}$$

Q3.B.Solve the following (any 2)

6

i. A survey was conducted in Adarsh vidyalaya to know the inclination of students towards different subjects. The data obtained is presented by the adjacent pie diagram. If the total number of students was 500, answer the following questions

- a) How many students show inclination towards Mathematics?
b) How many students are inclined towards Social science ?
c) How many more students are inclined towards languages than science ?



ii. Yogesh requires 3 days more than Vivek to complete a work. If they work together, the work can be completed in 2 days. Find the number of days required for each of them to complete the work.

iii. Solve the simultaneous equation graphically $x + y = 2$, $x - y = 4$

Q4.Solve the following (any 2)

8

i. The following table shows the number of patients of different age groups admitted to a hospital for treatment on a day. Find the median of ages of the patients

Age grp (yr)	10-20	20-30	30-40	40-50	50-60	60-70
No of patients	40	32	35	45	33	15

ii. Akshay is 2 years elder than John. If the product of their ages is 2208, then find their present ages.

iii. In a A.P sum of three consecutive terms is 27 and their products is 504. Find the terms (Assume that three consecutive terms in an A.P are $a-d, a, a+d$.)

Q5.Solve the following questions (any 1)

3

i. A balloon vendor has 2 red, 3 blue and 4 green balloons. He wants to choose one of them at random to give it to Pranali. What is the probability of the event that Pranali gets

- a) a red balloons b) a blue balloons

ii. The denominator of a fraction is 4 more than twice its numerator. Denominator becomes 12 times the numerator, if both the numerator and the denominator are reduced by 6, find the fraction



GUARDIAN HIGH SCHOOL & JR. COLLEGE

I SEMESTER EXAM (2023-2024)

Std- X

Mathematics II

Marks- 40

Date - 01/11/2023

Time-2 hr.

Note :

- i All questions are compulsory.
- ii Use of calculator is not allowed.
- iii The numbers to the right of the questions indicate full marks.
- iv In case of MCQs [Q. No. 1(A)] only the first attempt will be evaluated and will be given credit.
- v For every MCQ, the correct alternative (A), (B), (C) or (D) with sub-question number is to be written as an answer.
- vi Draw proper figures for answers wherever necessary.
- vii The marks of construction should be clear. Do not erase them.
- viii Diagram is essential for writing the proof of the theorem.

Q. 1 (A) For each of following sub-questions four alternative answers are given.

Choose the correct alternative and write its alphabet.

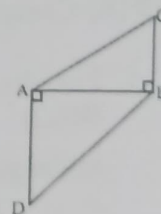
(4)

- i ΔABC and ΔDEF are equilateral triangles, $A(\Delta ABC) : A(\Delta DEF) = 1:2$, If $AB = 4$ then what is length of DE ?
 a. $2\sqrt{2}$ b. 4 c. 8 d. $4\sqrt{2}$
- ii Height and base of a right angled triangle are 24 cm and 18 cm find the length of its hypotenuse
 a. 24 cm b. 30 cm c. 15 cm d. 18 cm
- iii Out of the following, point lies to the right of the origin on X- axis.
 a. (-2,0) b. (0,2) c. (2,3) d. (2,0)
- iv $\text{Cosec } 45^\circ = ?$
 a. $\frac{1}{\sqrt{2}}$ b. $\sqrt{2}$ c. $\frac{\sqrt{3}}{2}$ d. $\frac{2}{\sqrt{3}}$

Q. 1 (B) Solve the following sub-questions. (any Four)

(4)

- i In adjacent figure $BC \perp AB$, $AD \perp AB$, $BC = 4$, $AD = 8$, then find $\frac{A(\Delta ABC)}{A(\Delta ADB)}$
- ii Do sides 7 cm, 24 cm, 25 cm form a right angled triangle? Give reason.
- iii Find the slopes of the lines passing through the given points.
 A (2, 3), B (4, 7)
- iv If $\theta = 45^\circ$, then find $\tan \theta$.
- v Is 5, 12, 13 a Pythagorean triplet?



Q. 2 (A) Complete the following activities and rewrite it. (Any two)

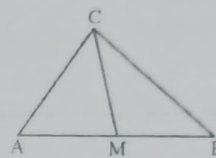
(4)

i M is the midpoint of seg AB and seg CM is a median of ΔABC

$$\frac{A(\Delta AMC)}{A(\Delta BMC)} = \frac{\square}{\square} \dots \text{(Triangles with equal height)}$$

$$= \frac{\square}{\square} \dots \text{(M is the midpoint of AB)}$$

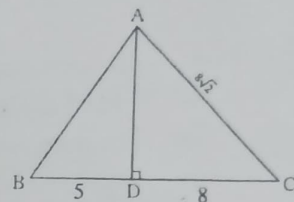
$$= 1$$



ii In adjacent figure, In ΔABC , seg $AD \perp$ seg BC , $\angle C = 45^\circ$, $BD = 5$ and $AC = 8$, then find AD and BC .

In ΔADC , $\angle ADC = 90^\circ$, $\angle C = 45^\circ$, $\therefore \angle DAC = 45^\circ$
 $AD = DC = \square \times \square \dots$ by \square

$DC = AD = \square$



iii An observer at a distance of 10m from a tree looks at the top of the tree, the angle of elevation is 60° . What is the height of the tree? $\sqrt{3} = 1.73$

So, $AB = h =$ height of the tree,
 $BC = 10$ m, distance of the observer from the tree
 Angle of elevation $(\theta) = \angle BCA = 60^\circ$
 from figure, $\tan \theta = \frac{\square}{\square} \dots (1)$

$\tan 60^\circ = \sqrt{3} \dots (2)$

$\therefore \frac{AB}{BC} = \square \dots$ from equation 1 and 2

$\therefore AB = BC \sqrt{3} = \square$

$\therefore AB = 10 \times 1.73 = 17.3$ m

\therefore height of the tree is 17.3m.



Q. 2 (B) Solve the following sub-questions. (Any four)

(8)

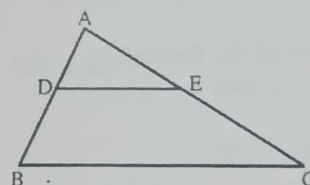
i In ΔABC , $DE \parallel BC$
 If $DB = 5.4$ cm, $AD = 1.8$ cm
 $EC = 7.2$ cm then find AE

ii Find perimeter of a square if its diagonal is $10\sqrt{2}$ cm.

iii Construct a tangent to a circle with centre O and radius 3.5cm at a point "P" on it.

iv Find k, if $B(k, -5)$, $C(1, 2)$ and slope of the line is 7.

v If $\cos \theta = \frac{5}{13}$, then find the value of $\sin \theta$

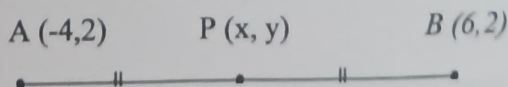


Q. 3 (A) Complete the following activity and rewrite it. (Any one)

(3)

i Find the co-ordinates of point P if P is the midpoint of a line segment AB with $A(-4,2)$ and $B(6,2)$.

In the given example, suppose



$(-4, 2) = (x_1, y_1)$; $(6, 2) = (x_2, y_2)$ and coordinates of P are (x, y)

\therefore according to midpoint theorem

$$x = \frac{\square}{2} = \frac{-4 + 6}{2} = \frac{\square}{2} = \square$$

$$y = \frac{y_1 + y_2}{\square} = \frac{2 + 2}{2} = \frac{\square}{2} = \square$$

ii If $\cos \theta = \frac{\sqrt{3}}{2}$ then find the value of $\sin \theta$

$$\cos \theta = \frac{\sqrt{3}}{2}$$

$$\sin^2 \theta + \cos^2 \theta = 1,$$

$$\therefore \sin^2 \theta + \left\{ \frac{\square}{\square} \right\}^2 = 1$$

$$\therefore \sin^2 \theta + 1 - \frac{\square}{\square} = \frac{1}{4}$$

$$\therefore \sin \theta = \frac{\square}{\square}$$

Q. 3 (B) Solve the following sub-questions. (Any two)

(6)

- i Prove that 'If a line parallel to a side of a triangle intersects the remaining sides in two distinct points, then the line divides the sides in the same proportion.'
- ii Prove that $\sec \theta + \tan \theta = \frac{\cos \theta}{1 - \sin \theta}$
- iii Draw a circle with radius 4.1 cm. Construct tangents to the circle from a point at a distance 7.3 cm from the centre.
- iv Verify that points P(-2, 2), Q(2, 2) and R(2, 7) are vertices of a right angled triangle.

Q. 4 Solve the following sub-questions. (Any two)

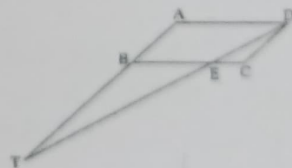
(8)

- i Draw a circle of radius 3.3 cm. Draw a chord PQ of length 6.6 cm. Draw tangents to the circle at points P and Q. Write your observation about the tangents.
- ii In the following examples, can the segment joining the given points form a triangle? If triangle is formed, state the type of the triangle considering sides of the triangle.
 $A(\sqrt{2}, \sqrt{2}), B(-\sqrt{2}, -\sqrt{2}), C(-\sqrt{6}, \sqrt{6})$
- iii ΔABC is an equilateral triangle. Point P is on base BC such that $PC = \frac{1}{3} BC$, if $AB = 6$ cm find AP.

Q. 5 Solve the following sub-questions. (Any one)

(3)

- i $\square ABCD$ is a parallelogram point E is on side BC. Line DE intersects ray AB in point T. Prove that $DE \times BE = CE \times TE$.



- ii From the top of the light house, an observer looks at a ship and finds the angle of depression to be 30° . If the height of the light-house is 100 meters, then find how far the ship is from the light-house.

Handwritten signature or initials.



GUARDIAN HIGH SCHOOL & JR. COLLEGE
FIRST SEMESTER EXAM (2023-24)

Std- X

Science -1

Marks- 40

Date-02/11/2023

Time-2 hrs.

Q1A . Solve the following.

(5)

✓ 1. Fill in the blank.

The acceleration due to gravity does not depend upon Mass of the object

✓ 2. Find the odd one out with reason.

Flourine, Sulphur, Bromine, Iodine

✓ 3. Complete the analogy .

Fluorine: 2, 7:: Chlorine: 17, 35

✓ 4. True or False. If false; write the correct statement for the same.

Relative humidity has no unit.

✓ 5. Answer the following.

What is meant by catenation power?

Q1B . Choose the correct option.

(5)

✓ 1. C_6H_{16} is _____

a. Hexane. b. Octane c. methane d. Heptane

✓ 2. In which block of the Modern Periodic table are the non metals present?

a. S block. b. P block. c. d block. d. f block

✓ 3. What is rust?

a. Sodium oxide b. iron oxide c. Copper oxide d. silver oxide

✓ 4. The specific heat capacity of _____ is maximum.

a. Mercury. b. Copper. c. Water. d. Iron

✓ 5. The escape velocity of a body from the earth's surface, $V_{esc} =$ _____

a. $\sqrt{GM/R}$. b. $\sqrt{2 GM/R}$. c. $\sqrt{2GM /R.}^2$ d. $\sqrt{GM/2R}$

Q2A . Give reason. (Any2)

(4)

1. Stars are twinkling at night only.
- ✓ 2. Melting point of the filament of a bulb is very high.
3. Water pipelines get cracked during winter season.

Q2B . Answer the following . (Any 3).

(6)

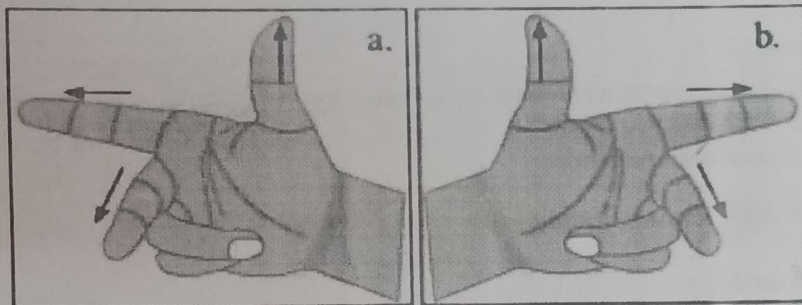
1.Explain giving two examples of chemical change.

2.Find the heat needed to raise the temperature of a silver container of mass 100g by 10°C .
($c=0.056\text{cal/g }^{\circ}\text{C}$)

3.Distinguish between saturated hydrocarbons and unsaturated hydrocarbons.

4. What is Dobereiner's Triad? Explain with example.

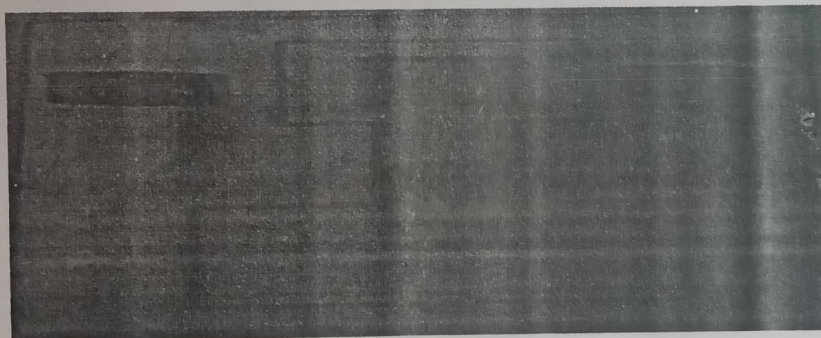
5. Name the following diagrams and explain the concept behind them.



Q3. Answer the following. (Any 5).

(15)

1. Answer the following based on the diagram given below.



i. Identify the machine shown in the fig.

ii. Write a use of this machine.

iii. How transformation of energy?

2 . A stone thrown vertically upwards with initial velocity u reaches a height h before coming down. Show that the time taken to go up is same as the time taken to come down.

3. Explain the construction and working of electric motor. Draw a neat diagram and label it.

4. What is a mirage? With a neat labelled diagram . Explain the conditions under which it is seen.

5. Describe the formation of oxygen molecule and nitrogen molecule.

6. Define and explain Kepler's three laws of planetary motion.

Q4. Answer the following. (Any 1).

(5)

1. Read the paragraph and answer the following questions.

If heat is exchanged between a hot and cold object, the temperature of the cold object goes on increasing due to gain of energy and the temperature of the hot object goes on decreasing due to loss of energy. The change in temperature continues till the temperatures of both the objects attain the same value. In this process, the cold object gains heat energy and the hot object loses heat energy. If the system of both the objects is isolated from the environment by keeping it inside a heat resistant box (meaning that the energy exchange takes place between the two objects only), then no energy can flow from inside the box or come into the box.

- i. State the principle on which galvanometer works. (1)
- ii. State the relation between the strength of the current and the deflection of galvanometer. (1)
- iii. Name any three devices working on the same principle as galvanometer. (1)
- iv. When the current in the galvanometer is switch on and later switch off, how will the deflection in the galvanometer change. (2)

2. Answer the following questions.

1 H 1.00794																	2 He 4.002602
3 Li 6.941	4 Be 9.012182											5 B 10.811	6 C 12.0107	7 N 14.00643	8 O 15.9994	9 F 18.998403	10 Ne 20.1797
11 Na 22.98976928	12 Mg 24.30409											13 Al 26.9815386	14 Si 28.0855	15 P 30.973761	16 S 32.06	17 Cl 35.453	18 Ar 39.948
19 K 39.0983	20 Ca 40.078	21 Sc 44.955912	22 Ti 47.867	23 V 50.9415	24 Cr 51.9961	25 Mn 54.938045	26 Fe 55.845	27 Co 58.933195	28 Ni 58.6934	29 Cu 63.546	30 Zn 65.39	31 Ga 69.723	32 Ge 72.63	33 As 74.92160	34 Se 78.96	35 Br 79.904	36 Kr 83.80
37 Rb 85.4678	38 Sr 87.62	39 Y 88.90584	40 Zr 91.224	41 Nb 92.90638	42 Mo 95.94	43 Tc 98	44 Ru 101.07	45 Rh 102.90550	46 Pd 106.42	47 Ag 107.8682	48 Cd 112.411	49 In 114.818	50 Sn 118.710	51 Sb 121.757	52 Te 127.60	53 I 126.90447	54 Xe 131.29
55 Cs 132.90545	56 Ba 137.327	57 La 138.90547	58 Ce 140.127	59 Pr 140.90766	60 Nd 144.242	61 Pm 144.9128	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25	65 Tb 158.92535	66 Dy 162.50	67 Ho 164.93033	68 Er 167.259	69 Tm 168.93403	70 Yb 173.0547	71 Lu 174.967	
87 Fr [223]	88 Ra [226]	89 Ac [227]	104 Rf [261]	105 Db [262]	106 Sg [263]	107 Bh [264]	108 Hs [265]	109 Mt [266]	110 [267]	111 [268]	112 [269]	114 [285]		116 [289]		118 [284]	

89 Ce 140.116	59 Pr 140.90766	60 Nd 144.242	61 Pm [145]	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25	65 Tb 158.92535	66 Dy 162.50	67 Ho 164.93033	68 Er 167.259	69 Tm 168.93403	70 Yb 173.0547	71 Lu 174.967
90 Th 232.0377	91 Pa [231]	92 U 238.02891	93 Np [237]	94 Pu [244]	95 Am [243]	96 Cm [247]	97 Bk [247]	98 Cf [251]	99 Es [252]	100 Fm [257]	101 Md [258]	102 No [259]	103 Lr [260]

- i. How are blocks indicated? (1)
- ii. Which elements are present near the zig Zag line? (1)
- iii. In a periodic table while going from left to right atomic radius decreases. Explain. (1)
- iv. Draw the electronic configuration of the second row elements of first group in the periodic table. (2)



GUARDIAN HIGH SCHOOL & JR. COLLEGE

FIRST SEMESTER EXAM (2023-24)

STD - X

SCIENCE -2

Marks- 40

Date- 03/11/2023

Time - 2 hrs.

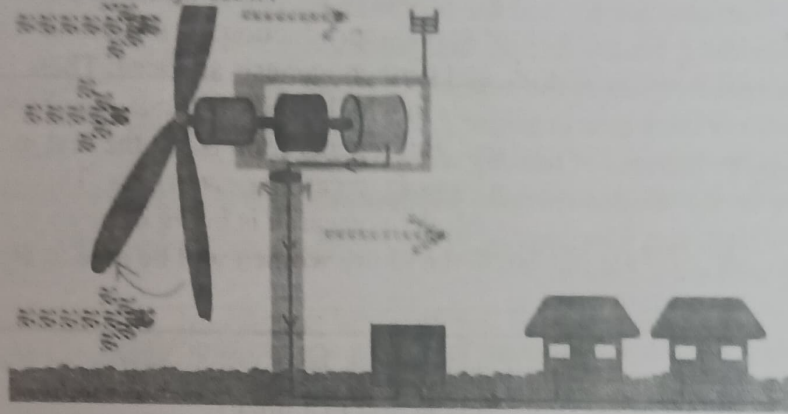
Q1. A Choose the correct the correct alternative and rewrite the statement : (5)

1. What should be done if the gas cylinder at your home catches fire?
(a) Water should be sprinkled. (b) Sand, soil should be put at it.
(c) Cylinder should be covered with wet blanket. (d) One should run away.
2. Which of the following is not an unisexual flower?
(a) Coconut (b) Papaya (c) Gulmohor (d) Maize
3. Which of the following is used in solar cooker to harvest the solar energy?
(a) Solar panels (b) Silicon cell (c) Mirrors (d) Glass lid
4. Vegetative propagation is performed with the help of _____ in sweet potato.
(a) Root (b) Stem (c) Leaf (d) Flower.
5. Which of the following is not the source of green energy?
(a) Wind (b) Natural Gas (c) Sunlight (d) Fossil Fuel

Q1.B Solve the following:

1. **Rewrite the food-chain given below with correct sequence.** (1)
Grasshopper – Snake – Paddy field – Eagle – Frog
2. **Complete the analogy:** (1)
Skin : Keratin :: Blood : . _____
3. **Find the odd man out :** (1)
Stigma, Style, Pollen, Ovary
4. **State whether the following statement is true or false** (1)
Lion tailed monkey is a vulnerable species
5. **Give the names of:** (1)
Any two organisms belonging to Phylum: Echinodermata.

2. Answer the questions with the help of picture.
- Which type of energy is produced?
 - This power plant is based on which energy source?
 - Is this power plant eco-friendly? How?



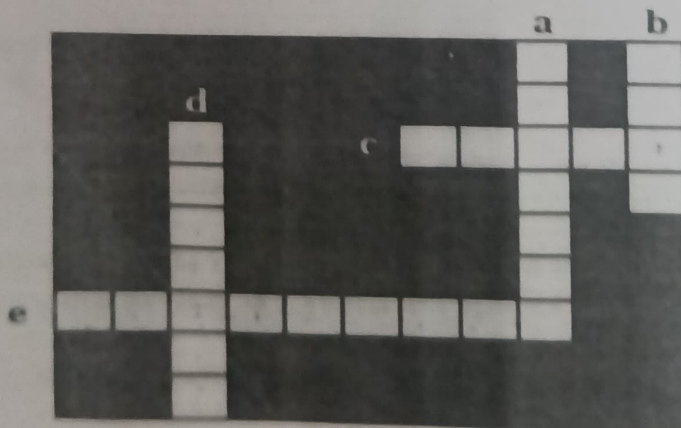
- Sketch, label and classify : Star fish
- Which are the reasons for endangering the many species of plants and animals?
How can we save those?
- How can biodiversity be conserved?
- Explain the concept of IVF.
- Which factors affect the social health?

Q4 Answer the following (any 1)

(5)

1. Solve the following crossword

- Maximum energy generation in India is done using _____ energy.
- _____ energy is a renewable source of energy
- Solar energy can be called _____ energy.
- _____ energy of wind is used in windmills.
- _____ energy of water in dams is used for generation of electricity.



2. Read the following paragraph and write the answers to the questions based on it.

Reproduction is an important process for the survival of an organism. Asexual reproduction occurs in different ways in plants. E.g. Vegetative propagation, fragmentation, budding, spore formation etc. Gametes are formed for sexual reproduction. In the animal kingdom, various methods like budding, binary fission, and parthenogenesis are used. There is no difference between males and females in the animals in which these methods are observed. The method of regeneration also creates new organisms. But regeneration is not the real method of reproduction. Regeneration is the process of healing wounds, creating new organs. This ability has completely disappeared in the developed animals. Modern research is being done on the method of sexual reproduction, e.g. Cloning. So in the future women will be able to create their own offspring without a father.

- a) How do living organisms maintain their own species continuity?
- b) What are the methods of asexual reproduction in animals?
- c) Why is it said that regeneration is not the real method of reproduction?
- d) What are the different methods of reproduction in plants?
- e) What modern breeding methods are being researched in developed animals.



GUARDIAN HIGH SCHOOL & JR. COLLEGE

FIRST SEMESTER EXAM (2023-24)

Std- X

History & Political Science

Marks- 40

Date- 6/11/2023

Time-2 hrs.

Note: (1) All questions are compulsory.

(2) It is mandatory to write a complete statement as answer in Question No. 1 (A) and Question No. 6

(3) Questions/Activities 1 to 5 are based on History and Questions/Activities 6 to 9 are based on Political Science.

(4) In Question No. 2 (A) and 8 (B), students should **draw concept map by pen only**.

(5) In Question No. 1 (B), students are expected to only identify the incorrect pair. They are not expected to correct it.

(6) If the students write the answers to Q. 1 (A), Q. 1 (B) & Q.6 more than once, their first answer will be considered for evaluation.

Q.1. (A) Complete the sentence by choosing the correct options:

(3)

1. The earliest museum in the world was discovered in the excavations at the city of _____

- (a) Delhi (b) Harappa (c) Ur (d) Kolkata

2. 'Bengal Gazette', the first English newspaper in India was started by _____

- (a) Allen Hume (b) Sir John Marshall
(c) Mountstuart Elphinstone (d) James Augustus Hickey

3. The _____ school of art laid the foundation of Indian iconography.

- (a) Mathura (b) Nagara (c) Dravid (d) Gandhar

Q.1. (B) Identify the wrong pair and write it:

(3)

1.

1. Red Fort- Udaipur
2. Jantar Mantar- Jaipur
3. Brihadeeshvara Temple- Thanjavur
4. Capital Complex- Chandigarh

2.

1. Kesari- Bal Gangadhar Tilak
2. Deenbandhu- Krishnarao Bhalekar
3. Darpan- Balshashtri Jambhekar
4. Prabhakar- Acharya P.K. Atre

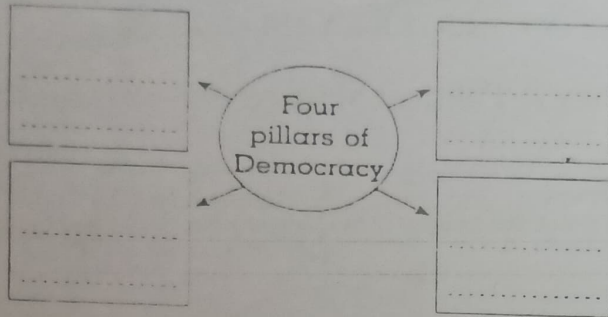
3.

1. Indian movie which got International acclaim- Saint Dnyaneshwar
2. Movie dealing with real social issues- Savkari Pash
3. First historical film in India- Simhgarh
4. First full length movie released in India- Raja Harishchandra

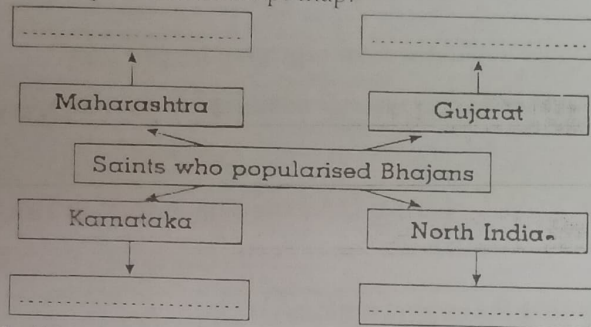
Q. 2 (A) Do as Directed: (Any Two)

(4)

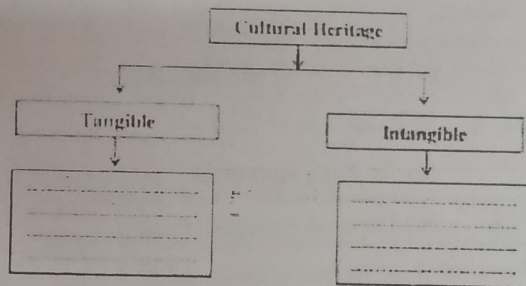
1. Complete the concept map:



2. Complete the concept map:



3. Complete the flow chart:



Q. 2 (B) Write Short Notes: (Any Two)

(4)

1. Indian Museum
2. Temple Architecture
3. Marathi Theatre

Q.3. Explain the following statements with reasons: (Any Two)

(4)

1. Newspaper is an important medium of education and information.
2. Voltaire is said to be the founder of modern historiography.
3. Expertise in history is important in film industry.
4. Maharashtra is known as the land that nurtured the Indian film industry.

Q. 4. Read the passage and answer the following questions:

(4)

Temples in Maharashtra built in 12th -13th centuries are known as Hemadpanti temples. The outer walls of Hemadpanti temples are built in a star shape. In the star-shaped plan, the outer walls of the temple have a zigzag design. This results into an interesting effect of alternating light and shadow. The important characteristic of Hemadpanti temple is its masonry. The walls are built without using any mortar, by locking the stones by using the technique of tenon and mortise joints. The Ambreshwar temple at Ambarnath near Mumbai, Gondeshwar temple at Sinnar near Nashik, Aundha Nagnath temple in the Hingoli district are a few finest examples of the Hemadpanti style. Their plan is star-shaped. The Hemadpanti temples are found at several places in Maharashtra.

Questions:

1. What is the effect of the star-shaped plan? (1)
2. In which centuries were the Hemadpanti temples built? (1)
3. Explain the characteristics of Hemadpanti temples. (2)

Q.5. Answer the following questions in detail: (Any Two) (6)

1. What is Powada?
2. Write about Folk traditions of sculptural art.
3. What is Marxist History?
4. Suggest at least six solutions for preservation of the sources of history.

Q.6. Complete the sentence by choosing the correct options: (2)

1. _____ was appointed as the first Chief Election Commissioner of independent India.
(a) Neela Satyanarayan
(b) Dr. Rajendra Prasad
(c) T.N. Sheshan
(d) Sukumar Sen
2. Justice Party- a non-Brahmin movement was transformed into a political party called _____
(a) Assam Gana Parishad
(b) Shiv Sena
(c) Dravid Munnetra Kazhagam
(d) National Conference

Q.7. Explain the following statements with reasons: (Any Two) (4)

1. The Constitution is a living document.
2. Shiromani Akali Dal is a national party.
3. The Election Commission lays down the code of conduct during elections.

Q.8. (A) Explain the concept: (Any One)

(2)

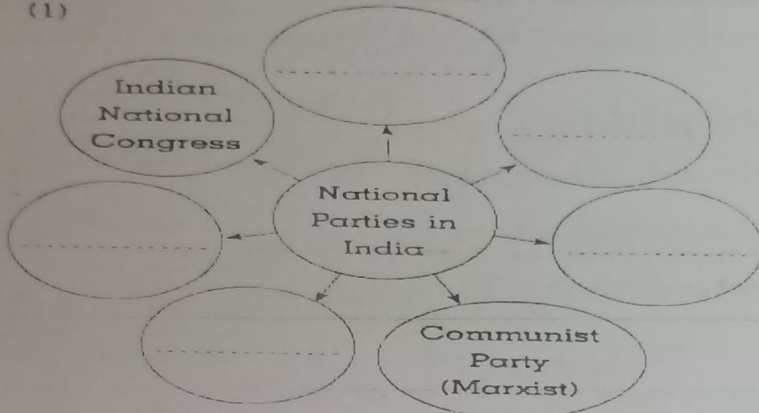
1. Right to Information
2. Election Commission

Q. 8. (B) Do as directed: (Any One)

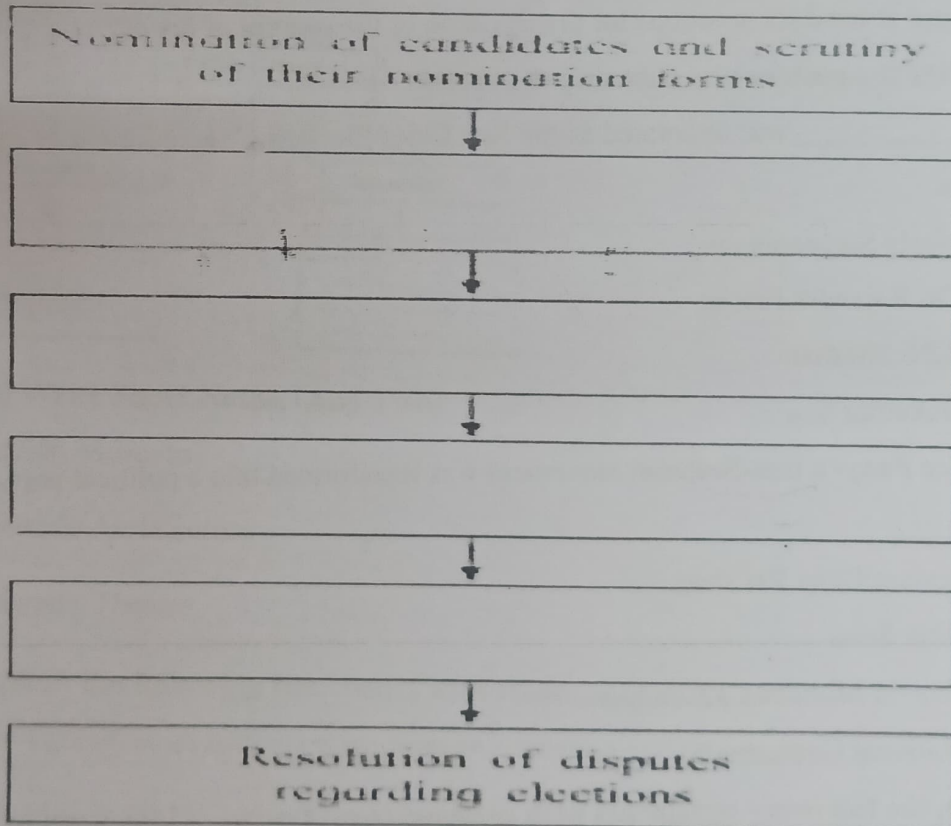
(2)

1. Complete the concept map:

(1)



2. Complete the flow chart on the process of election.



Q.9. Answer in Brief (Any One)

(2)

1. Explain the meaning of Code of Conduct
2. What changes have taken place in the nature of political parties in India?



GUARDIAN HIGH SCHOOL & JR. COLLEGE

I Semester Exam (2023-2024)

Std- X

Sub- Geography

Marks- 40

Date- 7/11/2023

Time-2 hr.

Q1 A) Select the correct option.

(4)

- 1) In India, thorny vegetation is found in the state of _____.
 - a) Maharashtra
 - b) Goa
 - c) Rajasthan
 - d) Kerala
- 2) The concentration of settlements is related to the following major factors _____.
 - a) Proximity to the sea
 - b) Plain region
 - c) Availability of water
 - d) Climate
- 3) Brazil is covered mainly by _____.
 - a) Highlands
 - b) Plains
 - c) Mountainous
 - d) Dissected
- 4) Both the countries have _____ type of government.
 - a) Military.
 - b) Communist
 - c) Republic
 - d) Presidential

Q1 B) Match the column.

(4)

Column 'A'	Column 'B'
Evergreen Forests	Sundar trees
Deciduous Forests	Pau Brazil
Coastal forests	Marshy lands
Pantanal	Teak

Q2 A) Find odd man out. (Any 2)

(2)

- 1) Neighbouring countries of India.
a) Nepal b) Bhutan c) Pakistan d) Surinam
- 2) With reference to flora of India.
a) Deodar b) Anjan. c) Orchid. d) Banyan
- 3) Members of BRICS
a) Brazil. b) India. c) China. d) Saudi Arabia.

Q2 B) Differentiate between the following (any 1).

(2)

- 1) Physiography of India and Physiography of Brazil.
- 2) Population distribution in Brazil and India.

Q3 A) Mark the following on the given outline map of Brazil. Give index. (Any 4)

(4)

- 1) Marajo Island. 2) Pico-De-Neblina. 3) Drought Quadrilateral. 4) Anaconda
- 5) Pantanal Wetlands

Q3 B) With the help of given statistical data prepare a simple bar graph and answer the following questions.

(6)

India- Trend of Urbanisation (1961- 2011)

Year	1961	1971	1981	1991	2001	2011
Percentage of urban Population	18.0	18.2	23.3	25.7	27.8	32.2

Questions

- 1) What is the interval of data,?
- 2) Which decade shows slow rate of urbanisation?
- 3) Which decade shows high rate of urbanisation?

Q4 A) Answer the following question in brief (any 3)

(6)

- 1) Write a comparative note on urbanisation in Brazil
- 2) Outline the importance of field visit.
- 3) What environmental issues are faced by Brazil?.
- 4) Why do the human settlements grow in specific locations only?

Q4 B) Give geographical reason. (any 3)

(6)

- 1) Wildlife of India is decreasing day by day.
- 2) As compared to Amazon pollution in river Ganga will affect human life greatly.
- 3) Population is an important resource.
- 4) Wildlife in India is decreasing day by day.

Q5 Write a short note on (Any3).

(6)

- 1) Himalayas.
- 2) The Great Escarpment
- 3) Importance of "Go West Policy " in Brazil
- 4) The western Ghats of India.