Science

XI Annual Exam
2023-24

Date : 11 MAR 2024

Navkonkan Education Society's
D.B.J. College, Chiplun
XI Annual Exam 2023-2024

Roll No. | | | |

Time :- 3 Hours | Sub:- English | Pages:-6 | Marks:- 80

SECTION – I:PROSE
(Reading for comprehension, Language Study, Summary and Mind Mapping)

Q.1 A] Read the extract & complete the activity that follows. **[12]**

'Well! You can think of it in here, she said dryly, opening a door which led from the kitchen into the small shed at the back of the cottage. They'll never guess you're there, specially if I tell them I haven't seen you tonight.'

'You're a good woman, Mrs. Adis. I know I'm not worth your standing by me, but may be I'd have been different if I'd a mother like Tom's.'

She did not speak, but shut the door, and he was in darkness save for a small ray of light that came through one of the cracks. By this light he could see her moving to and fro, preparing Tom's supper. In another hour Tom would be home from Ironlatch Farm, where he worked every day. Peter Crouch trusted Tom to help him, for they had been friends when they went together to the National School at Lamberhurst, and since then the friendship had not been broken by their very different characters and careers.

Peter Crouch **huddled down** upon the sacks that filled one corner of the shed. A delicious smell of cooking began to come through from the kitchen, and he hoped Mrs. Adis would not deny him a share of the supper when Tom came home, for he was very hungry and he had a long way to go.

He had fallen into a kind of helpless doze, when he was roused by the sound of footsteps on the road.

For a moment his poor heart nearly choked him with its beating. They were the keepers. They had guessed where he was - with Mrs. Adis, his old friend's mother. He had been a fool to come to the cottage. Nearly losing his self-control, he shrank into the corner, shivering, half sobbing. But the footsteps went by. The next minute Mrs. Adis stuck her head into the shed.

A-1] Find out and write any 4 words /phrases that show Peter was frightened. **[2]**

A-2] Write in brief about the help which Mrs. Adis offers to Peter unwillingly. **[2]**

A-3] Write in brief about the condition of Peter whenever he was inside the shed. **[2]**

A-4] Personal Response : **[2]**

Peter & Tom were friends since their childhood though their characters and careers were very different. Give your views about your idea of friendship.

A-5] Grammar : **[2]**

1] she did not speak. [make it affirmative]

2] "Well! You can think of it in here", she said dryly. [Change into indirect speech]

A-6] Mach the pairs of meaning. **[2]**

'A'	'B'
1) To & fro	a) not to deserve for something
2) huddled down	b) to refuse
3) not to be of worth	c) back & forth
4) to deny	d) Shrink oneself

Q.1 B] Non textual grammar : **[3]**

Do as directed :

1] People rushed out of the building, when they heard big bang. [Use No sooner … than]

2] India is one of the infuencial countries in the world. (Rewrite in positive degree).

3] There were a lot of adversories yet she could achieve her goal.
[Use Although & rewrite]

B2] Spot the error :

A bunch of keys were lost yesterday. (spot the error) **[1]**

Q.2 A] Read the extract & complete the activity that follow. **[12]**

In 1945 in Bay Roberts, Canada, a 12-year-old boy saw something in a shop window that set his heart racing. But the price-five dollars-was far beyond Reuben Earle's means. Five dollars would buy almost a week's groceries for his family.

Reuben couldn't ask his father for the money. Everything Mark Earle made fishing, Reuben's mother, Dora, stretched like elastic to feed and clothe their five children.

Nevertheless, he opened the shop's weathered door and went inside. Standing proud and straight in his flour-sack shirt and washed out trousers, he told the shopkeeper what he wanted, adding, "but I don't have the money now. Can you please hold it for me?"

"I will try," the shopkeeper smiled. "Folks around here don't usually have that kind of money to spend on things. It should keep for a while."

Reuben respectfully touched his worn cap and walked out into the May sunlight. The bay rippled in a freshening wind that ruffled his short hair. There was purpose in his loping stride. He would raise the five dollars and not tell anybody.

Hearing the sound of hammering from a side street, Reuben had an idea.

He ran towards the sound and stopped at a construction site. People built their own homes in Bay Roberts, using nails purchased in burlap sacks from a local factory. Sometimes the sacks were discarded in the flurry of building, and Reuben knew he could sell them back to the factory for five cents apiece.

That day he found two sacks, which he took to the rambling wooden factory and sold to the man in charge of packing nails. The boy's hand tightly clutched the small five-cent pieces as he ran the two kilometers home.

Near his house stood the ancient barn that housed the family's goats and chickens. Reuben found a rusty baking soda tin and dropped his coins inside. Then he climbed into the loft of the barn and hid the can beneath a pile of sweet-smelling hay.

It was supper time when Reuben got home. His father sat at the big kitchen table, working on a fishing net. Dora was at the black kitchen range, ready to serve dinner as Reuben took his place at the table.

He looked at his mother and smiled. Sunlight from the window gilded her shoulder-length blond hair. Five foot three, slim and beautiful, she was the centre of the home, the glue that held it together.

Her chores were never-ending. Sewing clothes for her family on the old Singer treadle machine, cooking meals and baking bread, planting a vegetable garden, milking the goats and scrubbing soiled clothes on a washboard. But she was happy. Her family and their well-being were her highest priority.

Every day after chores and school, Reuben scoured the town, collecting the burlap nail bags. On the day the two-room schoolhouse closed for the summer, no student was more delighted than Reuben. Now he would have more time to devote to his mission.

A-1] Complete the following **[2]**

1) _____was far beyond Reuben Earle's means.

2)Name of Reuben's father is _____.

3) People built their own homes in _____.

4) Reuben knew he could sell burlap sacks back to the factory for _____ apiece.

A-2] List out the duties of Reuben's mother. **[2]**

A-3] Write in brief about the planning which Reuben made to earn five dollars. **[2]**

A-4] Reuben wanted to give a gift to his mother so he worked hard to earn five dollars. **[2]**

Have you ever earned money to give a gift to your parents? share your experience.

A-5] Do as directed. **[2]**

1) He looked at his mother and smiled. [Make it simple &rewrite.]

2) No student was more delighted than Reuben. [Choose the correct option to of Superlative degree for above sentence.]

1) No student was most delighted than Reuben.

2) Ony Reuben was delighted.

Reuben was the most delighted student.
No other student was as delighted as Reuben.

6] Find out one word from the given extract for the following meanings. One for each. [2]
Worn by long exposure to the atmosphere -
A large farm building used for storing grain, hay or for housing goats, chickens etc. -
an evening meal –
grass than has been mown & dried for use as fodder –

.2 B] Write the summary of the given extract with the help of the given points and give a suitable le to it. [3]
euben's poor family – His wish to earn five dollars – His efforts to fulfill his wish

.2 C] Draft a mind mapping design on the topic, 'various use of Mobile phone.' [3]

SECTION II – POETRY
(POETRY AND APPRECIATION)

.3A] Read the extract & complete the activity that follows. [10]

arth has not anything to show more fair:
)ull would he be of soul who could pass by
sight so touching in its majesty:
'his city now **doth,** like a garment, wear
'he beauty of the morning; silent, bare,
hips, towers, domes, theatres, and temples lie
)pen unto the fields, and to the sky;
All bright and glittering in the smokeless air.
Never did sun more beautifully steep
In his first splendour, valley, rock, or hill;
Ne'er saw I, never felt, a calm, so deep!
The river **glideth** at his own sweet will;
Dear God! the very houses seem asleep;
And all that **mighty heart** is lying still!

A-1] State whether the following statements are true or false and rewrite them. [2]
1] According to the poet the Earth has nothing to show more fair.
2] According to the poet only a dull person can go away without enjoying the sight.
3] It is evening time when poet enjoyed the beautiful sight.
4] The poet has mentioned polluted air.

A-2] Describe the beauty of the sight which poet enjoyed while standing upon the bridge. [2]
A-3] A peaceful life is a basic need of human beings. Support this statement with proper explanation. [2]
A-4] Find out one example of personification & explain it. [2]

A-5] Compose your own poem of about 4 lines with proper rhyme scheme on the topic 'Sea'. [2]

Q3.B] Write an appreciation of the extract given below. [4]
Between Nose and Eyes a strange contest arose,
The spectacles set them unhappily wrong;
The point in **dispute** was, as all the world knows,
To which the said **spectacles** ought to belong.

So Tongue was the lawyer, and argued the cause
With great deal of skill, and a **wig** full of learning;
While Chief **Baron** Ear sat to balance the laws,

So famed for his talent in nicely **discerning**.

'In behalf of the Nose it will quickly appear,
And your lordship,' he said, 'will undoubtedly find,
That the Nose has had spectacles always in wear,
Which **amounts to** possession time out of mind.'

Then holding the spectacles up to the court,
'Your lordship observes they are made with a **straddle**
As wide as the **ridge** of the Nose is; in short,
Designed to sit close to it, just like a **saddle**.

'Again would your lordship a moment suppose,
('Tis a case that has happened, and may be again)
That the **visage** or **countenance** had not a Nose,
Pray who would, or who could, wear spectacles then?

SECTION III
(WRITING SKILLS)

Q.4 A] Complete the activities as per the instructions given below. [16]
Attempt any one of the following.

1) Drafting Vistual Message. [4]

You went to your friend's home to give him/her message about your family picnic. As you could meet only granny of your friend you wrote a note about your picnic including day, time & location. You requested your friend to join you. Draft a note that you will write to your friend.

OR

2)Statement of purpose :

You are an Environmentalist who wants to work as an assistant in Nagzira wildlife Cantury; under the famous Environment NGO. You are expected to send your Statement of purpose to make your ambitions true, including all your interests, achievement of purpose in about 150 words.

OR

3) Group discussion.

"After their annual exam friends together are discussing & planning about their treck on Sahyadri Mountain. Write a group discussion for the same. You may take help of the following points.
Points – Planning – fixing date – expenditures – guides – parents permission – preparations – add your own points

B] Attempt 'any one' of the following activities : [4]

1) Emall writing :

You are planning to arrange your study tour to Lakshadweep. Write an email to Additional District Magistrate, Kavaratti to get your entry permit. Include your dates of visits ,number of students, etc.
Compose an Email for the same in about 100-150 words in a proper format.

OR

2) Report writing :

Your sports club has recently celebrated their Annual sports week. As a secretary of the club. write a report of this celebration.
You may take help of the following points.
Date – time – Duration – Approximate number of students participated in it – the competitions conducted – the frame work of programme – Add your own points.

OR

3) Drafting Interview Questions :

You watched a show of Bombay Circus in your town. You were specially amazed by one of the dwarf (short) clowns. After the show you decide to meet him to know more about his life. You may take help of the following points, to draft questions to take his interview.

Name of the interviewee
Area of success
Date/Venue/Time
Duration of interview
Acceptance of reality
Medicinal help
Reasons behind it.
Frequency of shows
Risk factors.
Yearly income
Support
Expectations from the society.
Add your own point

C] Attempt 'any one' of the following activities : **[4]**

1) Speech writing :

In the occasion of your college's foundation day you are expected to deliver your speech on the topic 'My College'. Prepare a speech of about 150-200 words.

OR

2) Compering :

On the Occasion of 'Library Day' of your College various competitions like loud reading, speech etc. are arranged. You are assigned with the duty as a comparer. Draft a comparing script of a programme. With the help of following points.

-Introduction
-Welcoming the guests
-Welcome speech
- Frame work of programme
- Add your own points.

OR

3) Expansion of Idea:

Expand the following idea with the help of the points given below.

Ask your purse, before you buy.

-To know one's purchasing power
-Managing your economic needs in your income
-Need of managing expenditures.
-Add your own points.

D] Attempt 'any one' of the following activities : **[4]**

1) Drafting a Review :

Draft a review of a film which you have recently watched. Prepare your review with the help of the following points:

-Title
- Author
- Type
- Theme
- A shorts summary

- Characters
- Moral/Message
- Your View/ opinion

OR

2) Blog Writing :

Write a blog in about 150 words on the topic, "Happy time of my life"

3) Prepare an Appeal :

prepare an appeal to create general awareness about 'Practicing Exercise.' Think about need of a dail workout (Exercise). Make use of the following points.

- Prepare an attractive slogan.
- Make a persuasive appeal.
- Mention the importance
- Add your own points.

Q.5 A] Complete the activities given below as per the instructions :

1) Choose the correct alternative and complete the given statements : [16

1) A Treatise on Theatre (Natyashastra) was written by _____. [2

(Bharat muni, Shakespeare, Patanjali.)

2) Henrik Ibsen was a _____ play Wright.

(American, British, Norwegian).

3) _____ era was the golden period of drama.

(Elizabethan, Victorian, Canadian)

4) In 1642, _____ closed the theatres .

(Arthodore, Puritans, Roman)

2) Match the following items from column A with those from column B : [

A	B
1. Conflict	a. Central Idea
2. Charlie Chaplin	b. Aspects of the novel.
3. E. M. Foster	c. Non Verbal communication
4. Theme	d. Essence of drama.

B] Answer the following in brief :

1) In a play " The Rising of the Moon, "Sergeant faces internal conflicts between his love for Ireland his duty towards the British Rule. Describe the conflict in your words.

2) The man in the play, "The Rising of the Moon" shows his loyalty towards Ireland. Support th Statement in the context of the theme.

C] Answer the following in brief :

1) Draw a character sketch of Demetrius as one of the villains in the play "A Midsummer Nigh Dream".

2) Give your views about the love pair of "Lysander and Hermia."

D] Answer the following in brief :

1) News papers like" People's Messenger "are expected to support the true people like Dr. Stockm Unfortunately they remained behind the corrupt Mayor. Describe this incident in your words, shown "An Enemy of the people".

2) Write in brief about the Social Bath & about the problems which occur due to it, in your words.

Date : 12 MAR 2024

Navkonkan Education Society's

Roll No .

D. B. J. College, Chiplun

XI Annual Examination 2023-24

Time - 3 Hours **Subject – Physics** **Pages - 3** **Marks - 70**

General Instructions: The question paper is divided into four sections.

1. **Section A:** Q. No. 1 contains 10 multiple choice type of questions carrying **1** mark each.
   Q. No. 2 contains 8 very short answer type of questions carrying **1** mark each.
2. **Section B:** Q. No. 3 to Q. No. 14 contains 12 short answer type of questions carrying **2** marks each. (Attempt any Eight).
3. **Section C:** Q. No. 15 to Q. No. 26 contains 12 short answer type of questions carrying **3** marks each. (Attempt any Eight).
4. **Section D:** Q. No. 27 to Q. No. 31 contains 5 long answer type of questions carrying **4** marks each. (Attempt any Three).
5. Use of log table is allowed. Use of calculator is not allowed.
6. Figures to the right indicates full marks.
7. For each MCQ, correct answer must be written along with its alphabet.
   e.g., (a).... / (b) .... / (c) .... / (d) .... Only first attempt will be considered for evaluation.

SECTION-A

Q.1 Select and write the correct answer. **(10)**

i) SI unit of universal gravitational constant G is-
(a) $N\ kg^2/m^2$ (b) $N\ m^2/kg^2$
(c) m/s^2 (d) m/s

ii) $[L^{-3}\ M^1\ T^0]$ is the dimensional formula for
(a) Acceleration (b) Work
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iii) To be able to hear a distinct echo, the reflecting surface should be at minimum distance-
(a) 344 m (b) 34.4 m
(c) 172 m (d) 17.2 m

iv) The two different emf cells are connected in series, resultant output voltage will be-
(a) Half of any one (b) Smaller than any one
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v) Electric conduction through semiconductor is due to
(a) Electrons (b) Holes
(c) Neither electrons nor holes (d) Both electrons and holes

vi) If a TV telecast is to cover a radius of 640 km, what should be the height of transmitting antenna?
(a) 32000 m (b) 53000 m
(c) 42000 m (d) 55000 m

vii) If mirrors are inclined to each other at an angle of 90^0, the total number of images seen for a symmetric position of an object will be
(a) 3 (b) 4
(c) 5 (d) 3 or 4

viii) If $\vec{V}_1 = 3\hat{\imath} + 4\hat{\jmath} + \hat{k}$ and $\vec{V}_2 = \hat{\imath} - \hat{\jmath} - \hat{k}$, then the magnitude of $\vec{V}_1 + \vec{V}_2$ is equal to
(a) $4\hat{\imath} + 3\hat{\jmath}$ units (b) 7 units
(c) $3\hat{\imath} + 4\hat{\jmath}$ units (d) 5 units

ix) If linear coefficient of metallic sheet is 0.1962×10^{-5} /°C, then its areal coefficient o

(a) 0.1962×10^{-5} /°C (b) 0.0981×10^{-5} /°C

(c) 0.3925×10^{-5} /°C (d) 1.962×10^{-5} /°C

x) The force between two small charge spheres having charges of 2×10^{-7} C and 3×10^{-7} placed 30 cm apart in air is-

(a) 6×10^{-3} N (b) 6×10^{-9} N

(c) 9×10^{-3} N (d) 9×10^{-9} N

Q.2 Answer the following. (08)

i) Define fundamental quantities.

ii) What is polar satellite?

iii) State Hooke's law of elasticity.

iv) Define wavelength of the wave.

v) Write statement of Gauss' law.

vi) If T = 24.57 K, what is its value in Celsius?

vii) If critical angle of incident is 42°32' then calculate RI of medium.

viii) If magnetic length of bar magnet is 5 cm, what will be its geometric length?

SECTION-B

Attempt any **Eight.** (16)

Q. 3 State the triangle law of vector addition.

Q. 4 What is the law of conservation of linear momentum? Which law shows the consequence with it?

Q. 5 Obtain the formula for the variation of acceleration due to gravity with altitude.

Q. 6 Derive an ideal gas equation.

Q. 7 State any four Cartesian sign convention used in optics.

Q. 8 With the neat diagram, show the parallel combination of resistors and state its relation.

Q. 9 State any four uses of infrared waves.

Q.10 A copper metal cube has each side of length 1 m. The bottom edge of cube is fixed and tangential force 4.2×10^8 N is applied to top surface. Calculate the lateral displacement of the top surface, if modulus of rigidity of copper is 14×10^{10} N/m^2.

Q.11 A charge +q exerts a force of magnitude – 0.2 N on another charge -2q. If they are separated by 25.0 cm, determine the value of q.

Q.12 A car moves at a constant speed of 60 km/hr for 1 km and 40 km/hr for next 1 km. What is the average speed of the car?

Q.13 If $\vec{V}_1 = 5\hat{\imath} + 2\hat{\jmath}$ and $\vec{V}_2 = a\hat{\imath} - 6\hat{\jmath}$ are perpendicular to each other, determine the value of a.

Q.14 A magnet makes an angle of 45^0 with the horizontal in a plane making an angle of 30^0 with the magnetic meridian. Find the true value of the dip angle at the place.

SECTION-C

Attempt any **Eight.** (24

Q.15 Derive an expression for electric intensity at a point on the axis of an electric dipole.

Q.16 Explain the behaviour of metallic wire with stress-strain curve.

Q.17 Define coefficient of restitution and obtain its value for an elastic collision.

Q.18 State and explain Newton's law of cooling.

Q.19 What is a conical pendulum? Show that its time period is given by $2\pi\sqrt{\frac{l\cos\theta}{g}}$, where l is the length of the string, θ is the angle that the string makes with the vertical plane and g is the acceleration due to gravity.

Q.20 Derive an expression for the magnetic field due to a bar magnet at an arbitrary point.

Q.21 Explain the I-V characteristics of a forward biased junction diode.

Q.22 In Ohm's experiments, the values of the unknown resistances were found to be 4.10 Ω, 4.12 Ω, 4.16 Ω, 4.15 Ω and 4.09 Ω. Calculate the mean absolute error, relative error and percentage error in these measurements.

Q.23 Calculate the kinetic energy, potential energy, total energy and binding energy of an artificial satellite of mass 2000 kg orbiting at a height of 3600 km above the surface of the Earth. Given G = 6.67 x 10^{-11} N m^2/kg^2, R = 6400 km, M=6 x 10^{24} kg.

Q.24 The sound emitted from the siren of an ambulance has frequency of 1500 Hz. The speed of sound is 340 m/s. Calculate the difference in frequencies heard by a stationary observer if the ambulance initially travels towards and then away from the observer at a speed of 30 m/s.

Q.25 A battery of emf 12 V and internal resistance 3 Ω is connected to a unknown resistor R. If the current in the circuit is 0.5 A, calculate resistance of unknown resistor R and terminal voltage applied by battery when the circuit is closed.

Q.26 Find unit vectors perpendicular to the plane of the vectors, $\vec{A} = \hat{\imath} - 2\hat{\jmath} + \hat{k}$ and $\vec{B} = 2\hat{\imath} - \hat{k}$.

SECTION-D

Attempt any **Three.** **(12)**

Q.27 Show that the path of a projectile is a parabola. Also derive the formula for the maximum height achieved by a projectile thrown from the origin with initial velocity u at an angle θ to the horizontal.

Q.28 For a prism, prove that $i+e = A+\delta$, where the symbols have their usual meanings. Also explain the minimum deviation condition.

Q.29 State and explain principle of superposition of forces exerted on charge due to another charges.

Two parallel plates have a potential difference of 10 V between them. If the plates are 0.5 mm apart, what will be the electric field between them?

Q.30 State Newton's second law of motion and its importance.

Variation of a force in a certain region is given by $F = 6x^2 - 4x - 8$. It displaces an object from x = 1 m to x = 2 m in this region. Calculate the amount of work done.

Q.31 State any four uses of X rays.

The speed of light is 3 × 10^8 m/s. Calculate the frequency of red light of wavelength 6.5 × 10^{-7} m.

******☺******

Date : 12 MAR 2024

Navkonkan Education Society's

D. B. J. College, Chiplun

XI Annual Examination 2023-24

Roll No .

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(10)

Q.1 Select and write the correct answer.

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Q.17 Define coefficient of restitution and obtain its value for an elastic collision.

Q.18 State and explain Newton's law of cooling.

Q.19 What is a conical pendulum? Show that its time period is given by $2\pi\sqrt{\frac{l\cos\theta}{g}}$, where l is the length of the string, θ is the angle that the string makes with the vertical plane and g is the acceleration due to gravity.

Q.20 Derive an expression for the magnetic field due to a bar magnet at an arbitrary point.

Q.21 Explain the I-V characteristics of a forward biased junction diode.

Q.22 In Ohm's experiments, the values of the unknown resistances were found to be 4.10 Ω, 4.12 Ω, 4.16 Ω, 4.15 Ω and 4.09 Ω. Calculate the mean absolute error, relative error and percentage error in these measurements.

Q.23 Calculate the kinetic energy, potential energy, total energy and binding energy of an artificial satellite of mass 2000 kg orbiting at a height of 3600 km above the surface of the Earth. Given G = 6.67 x 10^{-11} N m^2/kg^2, R = 6400 km, M=6 x 10^{24} kg.

Q.24 The sound emitted from the siren of an ambulance has frequency of 1500 Hz. The speed of sound is 340 m/s. Calculate the difference in frequencies heard by a stationary observer if the ambulance initially travels towards and then away from the observer at a speed of 30 m/s.

Q.25 A battery of emf 12 V and internal resistance 3 Ω is connected to a unknown resistor R. If the current in the circuit is 0.5 A, calculate resistance of unknown resistor R and terminal voltage applied by battery when the circuit is closed.

Q.26 Find unit vectors perpendicular to the plane of the vectors, $\vec{A} = \hat{\imath} - 2\hat{\jmath} + \hat{k}$ and $\vec{B} = 2\hat{\imath} - \hat{k}$.

SECTION-D

Attempt any **Three.** **(12)**

Q.27 Show that the path of a projectile is a parabola. Also derive the formula for the maximum height achieved by a projectile thrown from the origin with initial velocity u at an angle θ to the horizontal.

Q.28 For a prism, prove that i+e = A+δ, where the symbols have their usual meanings. Also explain the minimum deviation condition.

Q.29 State and explain principle of superposition of forces exerted on charge due to another charges.

Two parallel plates have a potential difference of 10 V between them. If the plates are 0.5 mm apart, what will be the electric field between them?

Q.30 State Newton's second law of motion and its importance.

Variation of a force in a certain region is given by $F = 6x^2 - 4x - 8$. It displaces an object from x = 1 m to x = 2 m in this region. Calculate the amount of work done.

Q.31 State any four uses of X rays.

The speed of light is 3 × 10^8 m/s. Calculate the frequency of red light of wavelength 6.5 × 10^{-7} m.

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Date:- 13/03/2024 Navkonkan Education Society's Roll No. | | |

D.B.J.College, Chiplun

XI Science Annual Examination (2023-24)

Time -3hrs. Sub-**Chemistry** Pages: - 3 Marks-70

General Instructions:- The question paper is divided into four sections.

1) Section A:-Q.No.1 contains 10 multiple choice type of questions carrying **One Mark** each.

Q.No.2 contains 08 very short answer type of questions carrying **One Mark** each.

2) Section B:-Q.No.3 to Q.No.14 contains 12 short answer type of questions carrying **Two Marks** each.

3) Section C:-Q.No.15 to Q.No.26 contains 12 short answer type of questions carrying **Three Marks** each.

4) Section D:-Q.No.27 to Q. No.31 contains 05 Long answer type of questions carrying **Four Marks** each.

5) Use of log table is allowed. Use of calculator is not allowed.

6) Figures to the right indicate full marks.

7) For each MCQ correct answer must be written along with its alphabet.

e.g.(a) ------- (b) -------(c)-------- (d)--------

SECTION- A

Q.1 **Select & write the most appropriate answer from the given alternatives for each sub questions.** **[10]**

1 Lateral overlap of p-orbitals leads to the formation of ……
a) π bond b) Metallic bond c) σ bond d) Ionic bond

2 Shape of 'p' obrbital is ---
a) Spherical b) dumb bell c) double dumbbell d) diagonal

3 The sum of oxidation states of all atoms in ClO_4^- ion is…..
a) zero b) -4 c) -1 d) +2

4 In the long form of periodic table the total number of periods are…..
a) 5 b) 7 c) 8 d) 9

5 Identify the odd one –
a) Rb b) Ra c) Sr d) Be

6 Hyperconjugation involves …….. overlap of orbitals
a) σ- σ b) σ-p c) p-p d) π-π

7 1- chloropropane on treatment with alco KOH gives …..
a) propane b) propene c) propyne d) propyl alcohol

8 Outer electronic configuration of group 14 elements is……..
a) $ns^2 np^0$ b) ns^2np^2 c) ns^2np^3 d) ns^2np^4

9 The readioactive isotope used in the treatment of leukemia is …..
a) ^{60}Co b) ^{226}Ra c) ^{32}P d) ^{126}I

10 Saponification is carried out by –
a) oxidation b) alkaline hydrolysis c) polymarisation d) free radical formation

Q.2 **Answer the following**

1 Write dash formula for → $H_3C-\overset{\overset{CH_2}{|}}{C}=CH-CH_2-CH_3$ **[8]**

2 Write name of radioactive alkali metal.

3 What is the SI unit of amount of a substance ?

4 Find out number of electrons in nuclide $^{40}_{18}Ar$

5 Define Hybridization.

6 Which type of overlaping is involved in formation of F_2 molecule ?

7 In which block of periodic table actinoids are placed ?

8 Define Redox reaction.

SECTION – B

Attempt any Eight

Q.3 Write any four uses of alkenes. [16]

Q.4 State and explain Avogadro's law.

Q.5 Distinguish between sigma (σ) and (π) bonds.

Q.6 Find the formula mass of

i) NaCl ii) $CaSO_4$

(if atomic mass of Na=23u, Cl=35.5u, Ca=40.0u, S=32.1 u, O=16 u)

Q7 Calculate the molarity of NaOH in the solution prepared by dissolving its 4 gms in enough water to form 250ml of solution.

Q.8 Differentiate between Isotopes and Isobars.

Q.9 Define- 1) Electron gain enthalpy 2) Atomic radius.

Q.10 Describe the diagonal relationship between Li and Mg with the help of two illustrative properties.

Q.11 What happens when i)Calcium carbonate reacts with dilute sulphuric acid.

ii) Sodium amalgum treated with water.

Q.12 Write expressions of Kc for following chemical reactions

i) $2SO_2(g) + O_2(g) \rightleftharpoons 2SO_3(g)$

ii) $N_2O_4(g) \rightleftharpoons 2NO_2(g)$

Q.13 Differentiate between Aromatic compounds and Aliphatic compounds.

Q.14 Define a) Carbocation b) Inductive effect

SECTION –C

Attempt any Eight

[24]

Q.15 Calculate the number of atoms in each of the following –

i) 52 moles of Argon (Ar)

ii) 52 u of Helium (He)

iii) 52g of Helium (He)

Q.16 Explain the formation of Methane molecule on the basis of sp^3 hybridizaiton.

Q.17 Define the following terms.

1) Mole fraction 2) Molarity 3) Molality

Q.18 Deduce oxidation number of -

1) S in SO_4^{2-} 2) N in N_2O_5 3) Br in BrO_3^-

Q.19 A compund with molar mass 159 was found to contain 39.62% copper and 20.13% sulphur Suggest empirical formula for the compound (Cu=63, S=32, O=16)

Q.20 Define Ionization Enthalpy. Why second ionizaiton enthalpy is greater than first ionization enthalpy ?

Q.21 Complete the following reaction sequence.

$$HC\equiv CH \xrightarrow{LiNH_2} A \xrightarrow{H_3C-CH_2-Br} B \xrightarrow[CCl_4]{Br_2} C$$

Q.22 Explain the trends of the following in group 13 elements.

a) Atomic radii

b) Ionisation enthalpy

c) Electron affinity

Q.23 Half life of ^{35}S is 87.8 days. What percentage of ^{35}S sample remains after 180 days ?

Q.24 Nitrogen gas filled in a container of volume 2.32 L at 32^0C and 4.7 atm pressure. Calculate the no. of moles of the gas.($R=8.314\ Jk^{1-}\ mol^{-1}$)

Define hydrogen bond.

Q.25 What is meant by broad spectrum antibiotics and narrow spectrum antibiotics ? Give any two examples of Antiseptics.

Q.26 State Boyle's law. Write mathematical expression of Boyle's law.

What is molar volume ?

SECTION –D

Attemt Any Three

Q.27 Explain principal quantum number. **[12]**

Write observed electronic configuration of 1) $Cr_{(Z=24)}$ 2) $Cu_{(Z=29)}$

Q.28 Observe the following structures and answer the questions given below.

i) $H_3C\text{-}CH_2\text{-}CH_2\text{-}CHO$

ii) $H_3C\text{-}\underset{\displaystyle CH_3}{\underset{|}{CH}}\text{-}CHO$

a) Write the relation between structure (i) and (ii)

b) Write IUPAC name of structure (ii)

Write structural formula for

1) 2,2,3-Trimethylpentan-4-ol

2) 2,4,5-Trimethylhexane

Q.29 Complete following reactions.

I.  $+ CH_3Cl \xrightarrow[AlCl_3]{\text{anhydrous}}$?

II.  $+ HO\text{-}NO_2 \xrightarrow[\Delta]{\text{conc } H_2SO_4}$?
conc.

Write the reaction to convert -

a) Propene to n-propyl alcohol

b) Propene to isopropyl alcohol

Q.30 Derive relation between Kc and Kp. Write statement of Le- Chatelier's principle.

Q.31 Draw the structures of -

a) Orthophosphoric acid

b) Boron trichloride

Why Ti^{+1} ion is more stable than Ti^{+3} ion ?

——— xxx ———

Date:- 14 MAR 2024 Navkonkan Education Society's Roll No-

D.B.J. College, Chiplun

XI Annual Examination 2023-2024

Time:-3 Hrs. Subject:- Biology Pages:- 04 Marks:- 70

Note:- General instructions:

The question paper is divided into four sections.

(1) Section A:-

Q.No. 1 contains **Ten multiple choice** type of questions carrying **one** mark each.

(i) For each MCQ,it is mandatory to write the correct answer along with its alphabet.

E.g. (a) ..... (b) ..... (c) ..... (d) .....etc. No marks shall be given if ONLY the correct anwer or alphabet of the correct answer is written.

(ii) In case of MCQ evaluation will be done for the first attempt only.

Q.No. 2 contains **Eight very short answer** type questions carrying **one** mark each.

(2) Section B: Q.No. 3 to Q.No.14 are **short answer** type of questions carrying **two** marks each.

(3) Section C: Q.No. 15 to Q.No.26 are **short answer** type of questions carrying **three** marks each.

(4) Section D: Q.No. 27 to Q.No.31 are **long answer** type of questions carrying **four** marks each.

(5) Begin the answer of each section on a new page.

SECTION – A

Q-1 Select and write the correct answer. 10

i. ..... is a common flagellated pathogen which causes sleeping sickness.
(a) Paramoecium (b) Entamoeba (c) Plasmodium (d) Trypanosoma

ii. The nitrogen base present in RNA and absent in DNA is .....
(a) Thymine (b) Cytosine (c) Uracil (d) Adenine

iii. ..... is the example of flightless bird.
(a)Ostrich (b) Parrot (c) Sparrow (d) Crow.

iv. Which of the following is the example of ureotelic animal?
(a) Mammals (b) Amphibian larvae (c) Bony fishes (d) Birds

v. Find out the master cell organelles among the following-
(a) Mitochondria (b) Nucleus (c) Lysosome (d) Ribosome

vi. Endoskeleton of an adult human consists of ..... bones
(a) 205 (b) 270 (c) 206 (d) 211

vii. Name the tissue which acts as a good insulator, shock absorber and good source of energy.
(a) Areolar tissue (b) Muscular tissue (c) Epithelial tissue (d) Adipose tissue

viii. Identify the living organisms which do not reproduce.
(a) Mule (b) Donkey (c)Horse (d) kangaroo rat

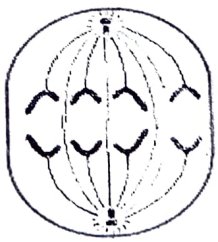
ix. In Red algae, stored food is in the form of .....
(a) starch (b) floridean starch (c) mannitol (d) cellulose.

x. Which among the following is false fruit?
(a) Mango (b) Coconut (c) Apple (d) Watermelon

Q-2 Answer the following in the one sentence. 8

i Define metabolism.

ii Identify the stage of mitosis.



iii What are the columns of Bertini?

iv Define the term Cryptogams.

v What is Aestivation?

vi Fill in the blanks:-
The non-protein group of conjugated protein is called as .....

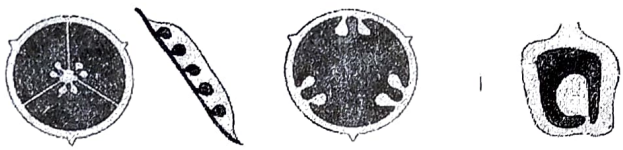
vii Write the functions of parenchyma.

viii Name the phylum which is known as connecting link between non-chordata and chordata.

SECTION – B

Attempt any EIGHT questions of the following:

Q-3 Identify the type of placentation in the given diagram.



A B C D

Q-4 Write a note on ammonotelism.

Q-5 Distinguish between Dicotyledonae and Monocotyledonae.

Q-6 Sketch and label **Prokaryotic cell.**

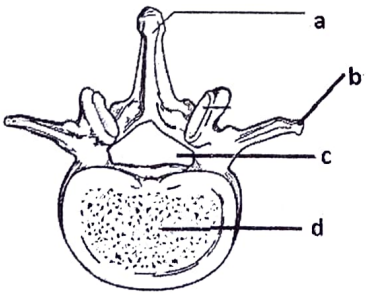
Q-7 Mention the biological importance of carbohydrates.

Q-8 Match the following.

Sr.No.	Column I	Column II
1	Hyaline cartilage	Head of long bones
2	Elastic cartilage	Pubic symphysis
3	Fibro cartilage	Tip of nose
4	Calcified cartilage	Epiglottis

Q-9 Write the rules followed by the Binomial nomenclature system.

Q-10 Identify the labelles **a, b, c** and **d** from the given diagram.



Q-11 Write a note on sclerenchyma tissue.

Q-12 Enlist the components of xylem.

Q-13 Give the significance of mitosis.

Q-14 **Answer the followings-**

i. Name the smallest facial bone.

Ii. Which facial bone is known as cheek bones?

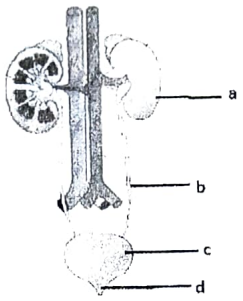
Iii Give the number of false ribs.

Iv. Name the longest bone in the body.

SECTION – C

Attempt any EIGHT questions of the following:

Q-15 Identify the labelles **a**, **b**, **c** and **d**. Give the functions of **a** and **c**.



Q-16 i. Explain the epiphytic root in brief.
ii Name the modification of root observed in Banyan tree.

Q-17 Distinguish between Chondrichthyes and Osteichthyes.

Q-18 i. Match the following from column- I and column – II and rewrite again.

	Column-I		Column - II
1	Platyhelminthes	a	Radula
2	Mollusca	b	Flat worms
3	Arthropoda	c	Ring worms
4	Annelida	d	Jointed appendages

ii. Give the two body forms of Phylum Cnidaria.

Q-19 With the help of suitable diagram describe the synovial joint.

Q-20 Select the appropriate answer and complete the sentences given below.

(Protein factories, cytosol, power house, Vacuoles, Golgi bodies, detoxification of drugs and poison)

i. Smooth Endoplasmic Reticulum helps in ..... in liver.
ii. Mitochondria are the ..... Of the cell.
iii. ..... are the manufacturing cum packaging and transport unit of the cell.
iv. Ribosomes are the ..... of the cell.
v. ..... are membrane bound sacs prominently found in plant cells.
vi. The cell contains ground substance is called as .....

Q-21 Write a short note on types of neurons on the basis of their functions.

Q-22 With the help of suitable diagram explain "**Rhizome**" in brief.

Q-23 Complete the following table on the basis of different types of fungi.

Sr.No.	Types	Common name	Examples
1	Phycomycetes	.....	Mucor
2	.....	.....	Penicilium
3	Basidiomycetes	.....	.....
4	.....	Imperfect fungi	Alternaria

Q-24 Explain the meristems based on their position.

Q-25 i. What is meiosis?
ii. Explain any two sub-stages of prophase-I.

Q-26 Describe the structure of DNA with the help of suitable diagram.

SECTION - D

Attempt any THREE questions of the following:

Q-27 Write a note on types of lysosomes? Give its functions.

Q-28 Identify the pictures of animals and mention their respective phylum or class.



A



B



C



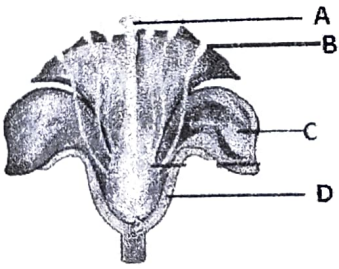
D

Q-29 i. Write a note on economic importance of Bryophyta.

ii. Give the silent features of division pteridophyta.

Q-30 i.Identify the labeles A,B,C and D from following diagram.

Ii.Write a note on reproductive whorls of the flower.



Q-31 i.Complete the following chart regarding name of epithelial tissue and rewrite.

Sr.No.	Name of the epithelial tissue	Location
1.	?	In blood vessels, alveoli and coelom
2.	?	Inner lining of intestine and gall bladder.
3.	?	In PCT and DCT of nephron.
4.	?	In urinary bladder.

ii.Write a short note on haversian system of mammalian bone.

Date- 15 /03 /2024 Roll No: | | | |

Navkonkan Education Society's

D.B.J. College, Chiplun.

XI Annual Examination 2023-2024

Sub: MARATHI (Arts/Com./Sci.)

Time: 3:00 Hrs **(04 Pages)** **Max.Marks: 80**

कृतिपत्रिकेसाठी **सूचना :**

- *आकलन कृती व व्याकरण यांमधील आकृत्या किंवा चौकटी पेनाने अथवा पेन्सिलीने व्यवस्थित काढाव्यात.*
- *स्वच्छता, नीटनेटकेपणा व लेखननियमांनुसार लेखन यांकडे जाणीवपूर्वक लक्ष द्यावे.*

विभाग — १ गद्य

कृती १ : (अ) खालील उताऱ्याच्या आधारे सूचनेनुसार कृती करा. (०८)

१) अ) मनुष्य प्राण्याला मिळालेले अनोखं दान _____ (१)

(ब) माणूसपणाचा पायाभूत धर्म — _____ (१)

२) नवनिर्मितीच्या प्रेरणेतून पुढील गोष्टी घडू शकतात. (२)

_____ _____

संवादाची इतकी गरज माणसाला का आहे, याचा शोध हया निमित्तानं घ्यायला हवा. 'मन' हे प्रत्येक प्राण्याला आहेच; पण मनात सुखदु:खाची कंपनं निर्माण होऊन, त्यातून नवनिर्मिती करण्याचं अनोखं दान फक्त मनुष्य प्राण्यालाच आहे. म्हणूनच मेंदूतून प्रकटणाऱ्या अनेक नैसर्गिक प्रेरणांपैकी एक नवनिर्मितीची प्रेरणा; जी विचार करायला लावते, भूतकाळाशी धागा जोडते, भविष्याचं स्वप्नं रंगवते, निजलेली ऊर्जा जागवून वर्तमान सुसह्य होण्यासाठी नवनव्या प्रयोगात गुंतते.

माणूसपणाचं पोषण होण्यासाठी हवाय संवाद! संवाद हा माणूसपणाचा पायाभूत धर्म आहे. आज ह्या धर्मावर धर्मसंकट आल्यानं, माणसं माणसासारखी वागत नाहीत, अस दिसतं. त्यांना अधिक अधिक हव्यासाचा, कुठे थांबायच हे न कळण्याचा एकाकी पथच जीवनपथ वाटत आहे.

३) 'मानवी जीवनात संवादाचे महत्त्व' याविषयी तुमचे मत १२ ते १५ ओळींत लिहा. (४)

किंवा

संवादाचा अभाव असलेल्या मानवी जीवनात येणाऱ्या अडचणी याविषयी तुमचे मत १२ ते १५ ओळींत स्पष्ट करा.

कृती १ : (ब) खालील उताऱ्याच्या आधारे सूचनेनुसार कृती करा. (०८)

१) अ) संस्कृत सुभाषितातील पुस्तकाचे म्हणणे _____

ब) पुढील म्हणं पूर्ण करा (१)

दुधानं तोंड पोळल्यामुळ .....

२) पुढील कृती सोडवा. (१)

अ) वाचायला भरपूर ग्रंथ असले तर ..... (२)

ब) वाचायला पुस्तकं नसतील तर .....

माझ्या हाती पुस्तक देताना त्यानं त्यावरून मायेनं अलगद हात फिरवला. मी त्याला म्हणालो, ''कसलीही काळजी करू नका. माझ्या घरीसुद्धा तुमच्या पुस्तकाला माहेरी आल्यासारखंच वाटेल. त्याला सासुरवास सहन करावा लागणार नाही. ते अगदी 'योग्य स्थळी' तुम्ही देत आहात.'' तो हसला. त्याचं समाधान झालं असावं. मी म्हणालो, ''एका संस्कृत सुभाषितात म्हटलं आहे, 'मूर्खहस्ते न दातव्यम् एवं वदति पुस्तकम्' मूर्खाच्या हाती मला देऊ नका, असं पुस्तकाचं म्हणणं आहे. माझ्या हाती ते देताना तुम्हांला माझ्या शहाणपणाबद्दल शंका आली नाही ना?'' आता तो खळखळून हसला आणि म्हणाला, ''अहो, दुधानं तोंड पोळल्यामुळं मी ताक फुंकून पितो आहे. काही दिवसांपूर्वी एका कवींन माझी दोन पुस्तकं नेली. मी पंधरा दिवस वाट पाहिली. पुस्तकं मागायला गेलो तेव्हा त्यानं चक्क कानावर हात ठेवले. आपण पुस्तकं आणलीच नाहीत असं त्याचं म्हणणं आहे. आता काय करणार? पुस्तकं गिळंकृत करणं म्हणजे माझ्या दृष्टीनं भयानक प्रकार आहे. तेव्हापासून मी ठरवून टाकलं, की प्रत्यक्ष परमेश्वर आला तरी त्याला पुस्तक दयायचं नाही. माझी पुस्तकं हीच माझी अपत्यं. वाचायला भरपूर ग्रंथ असले तर मी जन्मठेपेची शिक्षासुद्धा आनंदानं सहन करीन; पण पुस्तकं नसतील तर राजवाडासुद्धा मला स्मशानासारखा वाटेल.'' सहज माझ्या मनात विचार आला — असे निष्ठावंत वाचक आता दुर्मीळ झाले.

३) लेखकांचा पुस्तकांविषयीचा दृष्टिकोन तुमच्या शब्दांत १२ ते १५ ओळींत लिहा. (४)

किंवा

मानवी जीवनातील पुस्तकाचे महत्त्व तुमच्या शब्दांत १२ ते १५ ओळींत लिहा.

कृती १ : (क) खालील उता—याच्या आधारे सूचनेनुसार कृती करा.

१. उताऱ्यात आलेल्या कुसुमाग्रजांच्या ओळी लिहा. _____

२. भारतीय अंतराळ युगाचा यांनी आरंभ केला _____

रशियानं पहिलावहिला उपग्रह स्पुटनिक अवकाशात स्थापून १९५७ साली अंतराळ युगाची नांदी म्हटली. त्यानंतर उण्यापुऱ्या चार वर्षांनी १९६१ साली होमी भाभा यांनी भारतीय अंतराळ युगाचा आरंभ करून त्याचं धुरीणत्व विक्रम साराभाई यांच्याकडे सोपवलं. त्या वेळी आपल्याकडे काय होतं? शून्य. संन्याशाच्या लग्नाला शेंडीपासून तयारी करावी, तशीच परिस्थिती. तंत्रज्ञान नव्हतं, प्रशिक्षित मनुष्यबळ नव्हतं, साधनसामग्री नव्हती, पहिला स्वदेशी अग्निया तर उड्डाणतळापर्यंत नेण्यासाठी बैलगाडीचा वापर करावा लागत होता. पण तिथपासून आपण फार मोठी मजल मारली. चंद्रच काय पण मंगळापर्यंत पोचलो आहोत.

भारतीय अंतराळ संशोधन संस्था, इस्त्रोच्या वैज्ञानिकांनी सोडलेल्या, दिनांक ०७ सप्टेंबर २०१९ रोजी चंद्रावर उतरणाऱ्या अंतराळयानाशी, लॅन्डर विक्रमचा चंद्राच्या पृष्ठभागापासून केवळ दोन किलोमीटर अंतरावर असताना संपर्क तुटला. पंच्याण्णव टक्के मोहीम यशस्वी झाली. त्या अविरत यज्ञात तात्पुरती अडचण आली, म्हणून नाउमेद होण्या काय कारण आहे? उलट अशा प्रसंगीच आपण सारे या वैज्ञानिकांच्या पाठीशी खंबीर उभे आहोत, याची ग्वाही त्या दयायला हवी. कुसुमाग्रजांच्या शब्दांत सांगायला हवं. 'रात्रीच्या गर्भात उदयाचा असे उषःकाल!'

३) खालील कृती सोडवा.

अ) रशियाने सोडलेल्या उपग्रहाचे नाव — _____

ब) भारतीय चंद्रयानाचे नाव — _____

विभाग — २ पद्य

कृती २. (अ) खालील कवितेच्या आधारे सूचनेनुसार कृती करा.

१) अ) आजीचा दागिना — _____

ब) आईचा दागिना — _____

२) योग्य पर्याय निवडून वाक्य पूर्ण करा.

अ) आजी ऊब देऊन राज करायची .....

१) आजी जखमांना औषधपाणी करून काम करायची.

२) जखमारूपी सकटांना सहन करून आनंदात राहायची.

३) रूढींचा त्रास सहन करत स्वयंपाकघरापुरती वावरायची.

दोन दोन किलो वजनाचे पैंजण घालून
माझी आजी
स्वयंपाकघरातून माजघरात
माजघरातून स्वयंपाकघरात
एखाद्या सम्राज्ञी सारखी
ठुमकत फिरायची!
ओझ्याने तिचे पाय भरून यायचे
दुखायचे, खुपायचे
घोटे कोळे ठिक्कर पडायचे
कधी जखम व्हायची, चिघळायची, रक्त वहायचं
पण नादाच्या भूलभुलैय्यातुन बाहेर न पडता पैंजणाखाली फडके बांधून
जखमांना ऊब देऊन ती राज करायची!
माझ्या आईने पैंजण सोडून
नाजूक, हलक्या, तोरड्या घालायला सुरूवात केली
ना पाय दुखणं, ना खुपणं, ना चिघळणं
आपल्याच तोऱ्यात ती
स्वयंपाकघर, माजघर, सोपा, अंगण, म्हाडी, गच्ची
सगळीकडे मनमुराद फिरायची
अधनं मधनं का होईना, तोरड्या टोचायच्या.
साडीचे काठ फाटायचे, दोरे लोंबायचे
पण सारे दुर्लक्षून
ती राजराणीसारखी भिरभिरायची!

३) 'आजी आणि आई' यांच्या जीवनपद्धतीत झालेला फरक तुमच्या शब्दांत १२ ते १५ ओळींत लिहा.

किंवा

स्त्रीयांच्या प्रगतीविषयी तुमचे मत १२ ते १५ ओळींत लिहा.

कृती २. (ब) **खालीलपैकी कोणत्याही चार कृती सोडवा.** (०८)

१) **खालील ओवीचा भावार्थ ६ ते ८ ओळींत तुमच्या शब्दात लिहा.**

माझा मराठाचि बोलु कौतुकें । परि अमृतातेंही पैजा जिंके ।
ऐसी अक्षरे रसिके । मेळवीन.

२) अगं पायाखालचे काटे मोडण्यासारखे
पायच होऊ देत आता .....घट्ट, मजबूत पोलादी
या ओळीचा अर्थसौंदर्य ६ ते ८ ओळींत लिहा.

३) डोळ्यापुढे अंधारुन आले तेव्हा
शब्दांच्याच उजेडाने हात दिला.
या पंक्तीतून व्यक्त होणारा अर्थ ६ ते ८ ओळींत तुमच्या शब्दात लिहा.

४) चपला घसरतात, सॅंडल बोचतात, बुट चावतात.
पण मिळणाऱ्या स्वातंत्र्यासाठी
मी सारे सहन करते.
पैंजण कवितेच्या या ओळींतील विचारसौंदर्य स्पष्ट करा.

५) मानवी स्पर्श ना जेथे, असतील फुले–पारध्रे
रानात अशा तू मजला, ईश्वरा जरा टाक रे
मी झाड होऊनी तेथे, पसरीन आपुले बाहु .....
वरील कवितेच्या ओळींचे भावसौंदर्य लिहा

६) आकान्ताने हाका घातल्या माझ्या
तेव्हा तेव्हा शब्दच धावून आले,
माझ्या निरूत्तर निखाऱ्यांना माऊलीने घ्यावे तसे पोटाशी घेतले.
कवितेच्या वरील ओळींचे रसग्रहण करा.

विभाग — ३ साहित्यप्रकार परिचय—नाटक

कृती ३. **अ) खालील उताऱ्याच्या आधारे सूचनेनुसार कृती करा.** (०४)

१) 'सीतास्वयंवर' हे आधुनिक नाटक यांनी लिहिले — [ ] (१)
२) महात्मा फुले यांनी लिहिलेली लिखित स्वरूपातील पहिली नाटयसंहिता — [ ] (१)

ज्ञान आणि मनोरंजन यांबरोबरच प्रेक्षक स्वत:च्या अनुभवांचे नाटकात घडणाऱ्या प्रसंगांशी नाते जोडत असतो. त्यामुळे त्याला ते आपले वाटते.

कथा, कादंबरी, नाटक या सर्वच साहित्यप्रकारांत समाजाची समकालीन चित्रे रेखाटण्याचे सामर्थ्य असते; परंतु कथा, कादंबरी, कविता यांपेक्षा नाटक हा साहित्यप्रकार निराळा आहे. बाकीचे साहित्यप्रकार हे वाचकनिष्ठ आहेत. नाटक हा समूहाचा आविष्कार असतो. नाटकामध्ये संगीत, नृत्य, वक्तृत्व, अभिनय, नेपथ्य, काव्य, चित्रकला अशा बहुतेक सर्व कलांचा समावेश होतो. कथा आणि कादंबऱ्यांमध्ये फक्त लेखक आणि वाचक हे दोन घटक असतात. पण नाटकामध्ये मात्र लेखकाचे शब्द नट संवादांच्या माध्यमातून प्रेक्षकांपर्यंत पोहोचवत असतो.

विष्णुदास भावे यांनी लिहिलेले 'सीतास्वयंवर' हे आधुनिक मराठी नाटकांतील कालमानदृष्टया पहिले नाटक! एक सरळ पौराणिक गोष्ट सांगणारे हे नाटक १८४३ सालचे! त्याचप्रमाणे १८५५ साली महात्मा फुले यांनी लिहिलेली 'तृतीय रत्न' ही लिखित स्वरूपातील पहिली नाटयसंहिता होय. त्यापूर्वी लळीत, गोंधळ, कीर्तन, पोवाडे, दशावतार, तमाशे अशा अनेक कला महाराष्ट्रात नांदत होत्या, ज्या नाटक या साहित्यप्रकाराच्या उदयास पूरक ठरल्या.

३) **नाटक साहित्य प्रकार इतर साहित्यापेक्षा वेगळा आहे. स्पष्ट करा.** (२)

कृती ३. **ब) पुढील कृती सोडवा. (कोणतेही दोन)** (०८)

१) कृष्णराव यांच्या सत्काराचे स्वरूप लिहा.
२) मुंबईला जात असलेल्या आगगाडीतील प्रसंग तुमच्या शब्दांत १२ ते १५ ओळींत लिहा.
३) 'सुंदर मी होणार' या नाटयउताऱ्यातील 'डॉक्टर' या पात्राची भूमिका तुमच्या शब्दांत १२ ते १५ ओळींत लिहा.
४) 'सुंदर मी होणार' या नाटकाचे कथानक तुमच्या शब्दांत १२ ते १५ ओळींत लिहा.

विभाग — ४ उपयोजित मराठी

(१८)

कृती ४: **सूचनेनुसार कृती करा. (कोणतेही तीन)**

१) **अनुवादाची कार्यक्षेत्रे पुढील मुद्यांच्या आधारे स्पष्ट करा.**
संपर्काची क्षेत्रे ——— माहितीच्या देवाणघेवाणीची व्याप्ती ——— वैद्यकीय क्षेत्र ——— शिक्षण क्षेत्र ——— पर्यटन क्षेत्र ——— मौखीक अनुवादाला महत्त्व.

२) **अनुवाद करताना पाळावयाची पथ्ये तुमच्या शब्दांत लिहा.**

३) **अनुदिनी लेखनासाठी पाळावयाची पथ्ये पुढील मुद्यांच्या आधारे स्पष्ट करा.**
कमीत कमी शब्दांत उत्तम रितीने स्वत:चे विचार भावना व्यक्त करण्याची संधी ——— विषयाने तारतम्य आवश्यक ——— अनुदिनीमधील भाषा ——— आपले विचार लेखकाच्या मनात स्पष्ट असणे आवश्यक.

४) अनुदिनी लेखनाची गरज पुढील मुद्यांच्या आधारे स्पष्ट करा.

प्रसारमाध्यमाचा विस्तार ——— संगणकाचा वाढलेला वापर ——— अनुदिनी हे एक नवीन माध्यम ——— स्वत:चे विचार, भावभावना यांची अभिव्यक्ती करण्याची संधी ——— स्वत:च्या अनुभवांना जगासमोर मांडण्याची संधी ——— सर्जनशीलतेला वाव.

५) उत्तम रेडिओजॉकी होण्यासाठीची भाषिक कौशल्ये पुढील मुद्यांच्या आधारे स्पष्ट करा.

संवाद साधण्याचे मौखिक कौशल्य ——— मातृभाषेसोबतच हिंदी, इंग्रजी व अन्य बोलींचे ज्ञानही हवे ——— चौफेर वाचन ——— बोलणे सुस्पष्ट, शुद्ध व प्रसन्न हवे ——— प्रसंगावधान व हजरजबाबीपणा ——— विविध नाटक, संगीत, साहित्य इत्यादी क्षेत्रांतील घडामोडींचे अद्ययावत ज्ञान.

६) पुढील मुद्यांच्या आधारे 'रेडिओजॉकी' ही संकल्पना स्पष्ट करा.

रेडिओ जॉकी म्हणजे ——— डिस्कजॉकी ——— रेडिओजॉकीचे कार्यस्वरूप ——— 'स्व' ची ओळख ——— कामासाठी आवश्यक असणारी कौशल्ये———विविध युक्त्या———रेडिओजॉकी आणि रसिक संबंध.

विभाग — ५ व्याकरण

कृती ५. पुढीलपैकी कोणत्याही सात कृती सोडवा.

अ) १) शब्दाची पहिली शक्ती ओळखा. (१)

अ) लक्षणा ब) अभिधा क) व्यंजना

२) ''घरावरून हत्ती गेला'' या वाक्यातील शब्दशक्ती ओळखा. (१)

अ)अभिधा ब) व्यंजना क) लक्षणा

आ) खालील काव्यपंक्तीतील काव्यगुण ओळखून लिहा.

१) 'नाद मधुर शब्द' हे या काव्यगुणाचे वैशिष्टये आहे. (१)

अ) प्रसाद ब) माधुर्य क) ओज

२) पडवळ — भोपळयांची
आळी ठेविली भागून (१)
या काव्यातील काव्यगुण ओळखा

अ) प्रसाद ब) माधुर्य क) ओज

इ) सूचनेनुसार कृती करा.

१) आज थंडी खूप आहे. (वाक्यप्रकार ओळखा) (१)

अ)केवल वाक्य ब) संयुक्त वाक्य क) मिश्र वाक्य

२) नाटकाची तिसरी घंटा वाजली नाटकाला सुरूवात झाली. (संयुक्त वाक्य करा) (१)

ई) कंसात दिलेल्या सूचनेनुसार कृती करा.

१) क्रियापदाने दाखवलेली क्रिया घडून गेली असा बोध होतो. त्याला———म्हणतात. (१)

अ) भविष्यकाळ ब) भूतकाळ क) वर्तमानकाळ

२) मी अभ्यास करतो. (काळ ओळखा) (१)

अ) भूतकाळ ब) वर्तमानकाळ क)भविष्यकाळ

उ) शब्दभेद रचना करणारी चौकट पूर्ण करा. (२)

	अर्थ
दिन	
दीन	

ऊ) १) पुढील शब्दातील उपसर्गघटित शब्द ओळखा. (१)

अ) गुणवान ब) अभिवाचन क) नानातऱ्हा

२) पुढील शब्दातील प्रत्ययघटित शब्द ओळखा. (१)

अ) घटकाभर ब) अनुमती क) जुनापुराणा

ए) पुढील गटातील विशेषण विशेष्य जोडया लावा. (२)

(कोमल, शुभ्र, आठवणी, चांदणे)

विशेष्य	विशेषण

ऐ) समानार्थी शब्द लिहा. (२)

१. सूर्य — [ ]
२. मातोश्री — [ ]

ओ) विरुध्दार्थी शब्द लिहा. (२)

१. स्पष्ट [ ]
२. अपूर्ण [ ]

Date: 16 MAR 2024 Navkonkan Education Society's Roll No.:

D.B.J. College, Chiplun

Annual Examination March 2024(XI Sci. A,B,C)

Time:-3hrs. Sub: – Mathematics(40) Pages :- 02 Marks:–80

General Instructions:

The question paper is divided into **FOUR** sections.

1. **Sec. A:** Q.1 contains **Eight** multiple choice type of questions carrying **Two** marks each.
   Q.2 contains **Four** sub-questions each carrying **One** mark.
2. **Sec. B:** Q. 3 to Q.14 each carries **Two** marks.(Attempt any **Eight**)
3. **Sec. C:** Q.15 to Q.26 carries **Three** marks. (Attempt any **Eight**)
4. **Sec. D:** Q.27 to Q.34 each carries **Four** marks. (Attempt any **Five**)
5. Use of log table is allowed. Use of calculator is not allowed.
6. Use of graph paper is not necessary. Only rough sketch of graph is expected.
7. For each MCQ, correct answer must be written along with its alphabet:
   e.g.(a)…….. / (b) …….. / (c) …….. / (d) …….. etc.
8. Start answers to each section on a new page.

SECTION –A

Q.1. Select & write the most appropriate answer from the given alternatives for each question [16]

i) If $p(A) = 0.65, p(B) = 0.15$ *then* $p(A') + p(B') = \cdots$..

(a) 1.5 (b) 1.2 (c) 0.8 (d) None of these

ii) If there are ten values each equal to 10 then S.D.(σ) of these values is

(a) 100 (b) 20 (c) 0 (d) 10

iii) If line $y = mx + 1$ is tangent to the parabola $y^2 = 4x$ then m=…..

(a) 1 (b) 2 (c) 3 (d) 4

iv) $\left(\frac{22\pi}{15}\right)^c$ is equal to ….

(a) 246° (b) 264° (c) 224° (d) 426°

v) Which term of the geometric progression 1,2,4,8,……. is 2048.

(a) 10th (b) 11th (c) 12th (d) 13th

vi) $(\sqrt{2}+1)^5 + (\sqrt{2}-1)^5 = \cdots$ …..

(a) 82 (b) 58 (c) $58\sqrt{2}$ (d) $29\sqrt{2}$

vii) The number of diagonals in a hexagon is

(a) 15 (b) 10 (c) 12 (d) 9

viii) $f(x) = 3^x$ *then* $f'(0) = \cdots$.

(a) $3\log_e 3$ (b) $\log_e 3$ (c) $\log_3 e$ (d) 1

और पुकारकर कहा – ''मछुवे, मछुवे, जरा इधर तो आ।''
मछुवा उसके पास जाकर बोला– "क्या है?– मछली ने कहा – मैं छोटी मछली हूँ। अभी तैरना

Q.2) Answer the following questions: [0

i) Find the value of $\cos 15^{\circ}$.

ii) If ω is complex cube roots of unity then find value of $\frac{\omega^2+\omega}{\omega^3}$.

iii) A fair dice is tossed twice what are the odds in favor of getting same scores on both tosses.

iv) If $A = \left\{\frac{1}{x}, x \in N, x < 8\right\}, B = \left\{\frac{1}{2x}, x \in N, x \leq 8\right\}$ then find A-B.

SECTION-B

Attempt any EIGHT of the following [1

Q.3) Find the Cartesian co-ordinates of the points on the parabola $y^2 = 12x$ whose parameter is 2.

Q.4) Prove that $C_0 + C_1 + C_2 + C_3 + \cdots \ldots \ldots, + C_{10} = 1024$.

Q.5) Find the domain and range of the function $f(x) = \sqrt[3]{x+1}$.

Q.6) Show that the lines $x - 2y - 7 = 0$ *and* $2x - 4y + 15 = 0$ are parallel to each other.

Q.7) Find the value of $\begin{vmatrix} a & h & g \\ h & b & f \\ g & f & c \end{vmatrix}$.

Q.8) If $A = \begin{bmatrix} 1 & -5 \\ 6 & 7 \end{bmatrix}, B = \begin{bmatrix} 2 & -3 \\ 4 & 8 \end{bmatrix}$ *find* $AB - 2I$ *where* I is unit matrix of order 2.

Q.9) Find the Cartesian co-ordinates of points whose polar co-ordinates are $(3, 90^{\circ})$.

Q.10) Prove that $sin2\theta = \frac{2tan\theta}{1+tan^2\theta}$.

Q.11) If $f(x) = 2\{x\} + 5x$ where $\{x\}$ is fractional part function of x then find $f(-1)$.

Q.12) Evaluate $\lim_{x \to 0} \frac{1-cos4x}{x^2}$.

Q.13) Discuss the continuity of the function

$$f(x) = \begin{matrix} x^3 - 2x + 1 & x \leq 2 \\ 3x - 2 & x > 2 \end{matrix} \Big\} \; at\; x = 2$$

Q.14) If the common ratio of a G.P. is $\frac{2}{3}$ and sum of infinity is 12 then find the first term.

SECTION-C

Attempt any EIGHT of the following [2

Q.15) Prove that $sin20^{\circ}.sin40^{\circ}.sin60^{\circ}.sin80^{\circ} = \frac{3}{16}$.

Q.16) If $A_\alpha = \begin{bmatrix} cos\alpha & sian \\ -sin\alpha & cos\alpha \end{bmatrix}$ *show that* $A_\alpha . A_\beta = A_{\alpha+\beta}$.

Q.17) Compute the variance and S.D.(σ)

x	31	32	33	34	35	36	37
f	15	12	10	8	9	10	6

18) If the tangent at (3,-4) to the circle $x^2 + y^2 = 25$ touches the circle $x^2 + y^2 + 8x - 4y + c = 0$, find c.

19) Find the eccentricity of the hyperbola which is conjugate to the hyperbola $x^2 - 3y^2 = 3$.

20) For two events A and B, P(A)= $\frac{3}{8}$, $P(B) = \frac{1}{2}$, $P(A \cup B) = \frac{5}{8}$ *find values of*

i) $P(A \cap B)$ *ii)* $P(A' \cap B')$ *iii)* $P(A' \cup B')$

21) Find f(a) , if f is continuous at x=a when $f(x) = \frac{1+cos(\pi x)}{\pi(1-x)^2}$ *for* $x \neq 1$ *and* $a = 1$.

22) If f(x) is a quadratic polynomial such that f(0)=3 , $f(0) = 3$, $f'(2) = 2$ & $f'(3) = 12$ *find* $f(x)$.

23) Simplify $\log_{10}\left(\frac{28}{45}\right) - \log_{10}\left(\frac{35}{324}\right) + \log_{10}\left(\frac{325}{432}\right) - \log_{10}\left(\frac{13}{15}\right)$.

24) Show that there is no constant term in the expansion of $\left(2x - \frac{x^2}{4}\right)^9$.

25) Prove that $\binom{n}{r} + \binom{n}{r-1} = \binom{n+1}{r}$.

26) A hall has 12 lamps and every lamp can be switched on independently. Find the number of ways of illuminating the hall.

SECTION-D

[20]

Attempt any FIVE of the following

Q.27) Evaluate $\lim_{x \to 0} \frac{1}{x^2}\left\{1 - cos\left(\frac{x^2}{2}\right) - cos\left(\frac{x^2}{4}\right) + cos\left(\frac{x^2}{2}\right) cos\left(\frac{x^2}{4}\right)\right\}$.

Q.28) Solve the following linear equations by Cramer's rule

$2x - y + z = 1$, $x + 2y + 3z = 8$, $3x + y - 4z = 1$

Q.29) A number is drawn at random from the numbers 1 to 50 .Find the probability that it is divisible by 2 or 3 or 10.

Q.30) Show that the line $8y + x = 17$ touches the ellipse $x^2 + 4y^2 = 17$.Find the point of contact.

Q.31) Convert the complex number $z = \frac{i-1}{cos\left(\frac{\pi}{3}\right)+isin\left(\frac{\pi}{3}\right)}$ in polar form.

Q.32) O(0,0),A(6,0) & B(0,8) are the vertices of a triangle.Find the co-ordinates of the incentre of ΔOAB.

Q.33) Prove that $\frac{1-sec\theta+tan\theta}{1+sec\theta-tan\theta} = \frac{sec\theta+tan\theta-1}{sec\theta+tan\theta+1}$.

Q.34) Check if $R: Z \to Z$, $R = \{(a,b)/\ 2\ divides\ a - b\}$ *is equivalence relation.*

Date:- 18/03/2024

Navkonkan Education Society's
D.B.J.College, Chiplun
XI Annual Examination 2023-24

Roll No.

Time :-3 Hrs | Sub:- Hindi | Pages :-5 | Max.Marks :- 80

सूचनाएँ–

१) सूचना के अनुसार गद्य, पद्य, विशेष अध्ययन तथा व्यावहारिक हिंदी की कृतियों में आवश्यकता के अनुसार आकृतियों में ही उत्तर लिखना अपेक्षित है। आवश्यक है। ह्य

२) सभी आकृतियों के लिए पेन का ही उपयोग कीजिए ।

३) आकृतियों में उत्तर पेन से ही लिखना

४) व्याकरण विभाग में पूछी गई कृतियों आवश्यकता नहीं है।

५) शुद्ध, स्पष्ट एवं सुवाच्च उत्तर के लिए आकृतियों की करना अपेक्षित है।

विभाग– गदय अंक२०

कृति १ अ) **निम्नलिखित पठित गद्यांश पढ़कर दी गई सूचनाओं केअनुसार कृतियाँ पूर्ण कीजिए।** (६अंक)

इधर मैं कई दिनों से बड़ा परेशान चल रहा हूँ । सब मेरा भला करना चाहते हैं । अखबार पढ़ने बैठता हूँ तो समाचार पढ़ने से पहले ढेर सारे कागज साथ में आ जाते हैं। कोई कहता है आपके द्वार पर आकर बैठे हैं। सभी तरह के इलाज के लिए क्लीनिक खोल दिया है । आप मोटे हैं तो पतला कर देंगे । पागल हैं तो ठीक कर देंगे । क्लीनिक से हर स्लिमिंग सेंटरवाला कह रहा है, 'बस ! आप आ जाएँ, बाकी सब हम पर छोड़ दें। हलवाई की दुकानवाला कह रहा है, 'ऐसी मिठाई आपने कभी न खाई होगी । मीठा खाएँ पर मीठे का असर न हो', ऐसी चीनी का इस्तेमाल करते हैं वे ।

क्रेडिट कार्डवाला फ्री डेबिट कार्ड दे रहा है। पैसे खर्च करने या नकद खर्च की कोई जरूरत पहले नहीं है । आप बेवजह पैसे के पीछे दौड़ रहे हैं । हम सामान आपके घर लाना चाहते हैं, आप बस माल खरीदें ! गाड़ीवाला नई गाड़ी के कागज दिए जा रहा है। साथ में लोन देने वाला बैंक के कागज भी दिए जा रहा है। अखबार के साथ पैंफलेटइतने ज्यादा हैं कि उन्हें पढ़ने बैठ जाओ तो अखबार पढ़ने के लिए वक्त नहीं बचेगा ।

१) **उत्तर लिखिए।** (०२)

१) क्रेडिट कार्डवाला यह दे रहा है ——————————

२) गाडीवाला यह दिए जा रहा है ——————————

३) मिठाईवाले की मिठाई ऐसी है ——————————

४) यह गाड़ी के कागज के साथ इसका कागज दिए जा रहा है ——————————

२) **i) समानाअर्थी शब्द –** (०१)

१) अस्पताल – २) रक्कम –

ii) विरुद्धाअर्थी शब्द– (०१)

१) भला x २) मीठा x

३) **अखबारों के साथ के पैंफलेट भेजे जाने के बारे में ४० से ५० शब्दों में लिखिए।** (०२)

आ) **निम्नलिखित पठित गद्यांश पढ़कर दी गई सूचनाओं केअनुसार कृतियाँ पूर्ण कीजिए।** (६अंक)

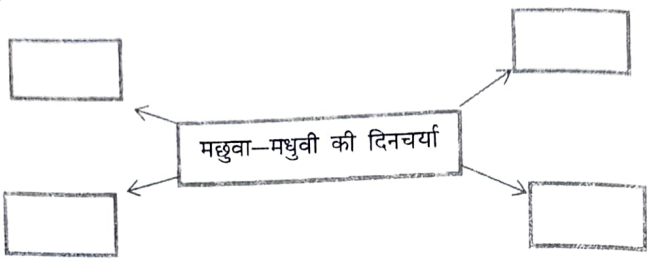
बड़ों में जो महत्त्वाकांक्षा होती है, उसी को जब हम क्षुद्रों में देखते हैं तो उसे हम लोभ कह देते हैं। उसी के संबंध में आज एक पुरानी कथा कहता हूँ।

एक था मछुवा, एक थी मछुवी। दोनों किसी झाड़ के नीचे एक टूटी–फूटी झोंपड़ी में अपना जीवन व्यतीत कर रहे थे। मछुवा दिन भर मछलियाँ पकड़ता, मछुवी दिन भर दूसरा काम करती। तब कहीं रात में वे लोग खाने के लिए पाते। ग्रीष्म हो या वर्षा, शरद हो या वसंत, उनके लिए वही एक काम था, वही एक चिंता थी। वे भविष्य की बात नहीं सोचते थे क्योंकि वर्तमान में ही वे व्यस्त रहते थे। उन्हें न आशा थी, न कोई लालसा ।

पर एक दिन एक घटना हो गई। मछुवा आ रहा था मछलियाँ पकड़ने। नदी के पास एक छोटा–सा गड्ढा था । उसमें कुछ पानी भरा था। उसी में एक कोने पर, लताओं में, एक छोटी–सी मछली फँस गई थी। वह स्वयं किसी तरह पानी में नहीं जा सकती थी। उसने मछुवे को देखा और पुकारकर कहा – ''मछुवे, मछुवे, जरा इधर तो आ।''

मछुवा उसके पास जाकर बोला– "क्या है?– मछली ने कहा -- मैं छोटी मछली हूँ। अभी तैरना अच्छी तरह नहीं जानती । यहाँ आकर फँस गई हूँ। मुझको किसी तरह यहाँ से निकालकर पानी तक पहुँचा दे। ''

आ) १) संजाल पूर्ण कीजिए। (०२)



२) **लिखिए–परिच्छेद में उल्लिखित चार ऋचतुओं के नाम–** (०२)

१) ——————————२) ——————————

३) ——————————४) ——————————

३) **महत्वाकांक्षाओं का कभी 'अंत नहीं होता' विषय पर अपनेविचार व्यक्त कीजिए।** (०२)

इ) **निम्नलिखित के उत्तर ८० से १०० शब्दों में लिखिए।(३ में से २)** (६)

१) 'तत्सत' शीर्षक की सार्थकता स्पष्ट कीजिए।

२) 'मेरा भला करनेवालों से बचाए' इस पाठ के आधार पर ग्राहकों की वर्तमान स्थिति का चित्रण कीजिए।

३) महत्वाकांक्षा और लोभ' निबंध में निहित मानवीय भावों से संबंधित विचार लिखिए।

ई) **साहित्य संबंधी सामान्य ज्ञान पर आधारित सवालों के जवाबएक वाक्य में लिखिए। (४ में से२)** (०२)

१) धनपतराय जी का विशेष नाम लिखिए।

२) 'अज्ञेय' जी का मूल नाम लिखिए।

३) रामधारी सिंह 'दिनकर' जी की कौनसी कृति को ज्ञानपीठ पुरस्कार प्राप्त हुआ है।

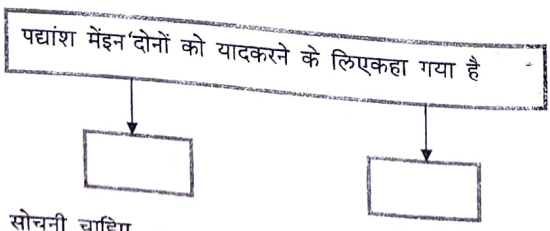
४) 'तत्सत' पाठ के लेखक कौन है?

विभाग– २ पद्य – अंक २०

कृति २ अ) **निम्नलिखित पदयांश पढ़कर दी गई सूचनाओं के अनुसार कृतियाँ पूर्ण कीजिए।** (६)

दोस्त है तो मेरा कहा भी मान
मुझसे शिकवा भी कर, बुरा भी मान
दिल को सबसे बड़ा हरीफ समझ
और-इस संग को खुदा भी मान
मैं कभी सच भी बोल देता हूँ
गाहे–गाहे मेरा कहा भी मान
याद कर देवताओं के अवतार
हम फकीरों का सिलसिला भी मान
कागजों की खामोशियाँ भी पढ़
इक–इक हर्फ को सदा भी मान
आजमाइश में क्या बिगड़ता है
फर्ज कर और मुझे भला भी मान
मेरी बातों से कुछ सबक भी ले
मेरी बातों का कुछ बुरा भी मान
गम से बचने की सोच कुछ तरकीब
और इस गम को आसरा भी मान

१) **आकृती पूर्ण कीजिए।** (



२) **उत्तर लिखिए–** (

१) इसके लिए तरकीब सोचनी चाहिए ——————————

२) इसे खुदा मानने का आग्रह है ——————————

३) इनकी खामोशियाँ पढ़ना है ——————————

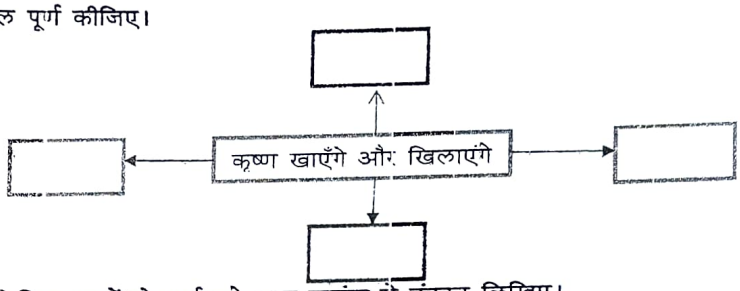
४) कवि अपने बारे में यह दावा करते हैं ——————————

३) जीवन की सर्वोत्तम पूँजी मित्रता है इस विषय पर ४० से ५० शब्दों में अपना मत लिखिए। (०२)

आ) निम्नलिखित पद्यांश पढ़कर दी गई सूचनाओं के अनुसार कृतियाँ पूर्ण कीजिए। (६अंक)

बार बार जसुमति सुत बोधति, आउ चंद तोहिं लाल बुलावै ।
मधु मेवा पकवान मिठाई, आपुन खैहै, तोहिं खवावै ।।
हाथहिं पर तोहिं लीन्हे खेलै, नैंकु नहीं धरनी बैठावै ।
जल—बास्न कर लै जु उठावति, याही मैं तू तन धरि आवै ।।
जलपुट आनि धरनि पर राख्यौ, गहि आन्यौ वह चंद दिखावै ।
सूरदास प्रभु हँसि मुसक्याने, बार बार दोऊ कर नावैं ।।

१) संजाल पूर्ण कीजिए। (०२)



२) निम्नलिखित शब्दों के अर्थवाले शब्द पद्यांश से ढूंढकर लिखिए। (०२)

१) ले आई --
२) डालते है —
३) धारण करके
४) बिलकुल नही —

३) चंद्रमा के प्रति बच्चों का आकर्षण इस विषयपर अपने विचार लिखिए। (०२)

इ) निम्नलिखित मुद्दों के आधारपर "स्वागत है"कविता का रसस्वादन लिखिए। (६अंक)

१) रचनाकार का नाम–
२) पसंद की पंक्तियाँ–
३) पसंद के कारण–
४) कविता की केंद्रिय कल्पना–

अथवा

'भक्तिमहिमा' कविता का रसग्रहण कीजिए।

ई) साहित्य संबंधी सामान्य ज्ञान पर आधारित एक वाक्य में उत्तर लिखिए। (४ में से २) (०२)

१) गजलें कविता के कवि कौन है?
२) महादेवी वर्मा जी की कौनसी साहित्यकृती को ज्ञानपीठ पुरस्कार प्राप्त हुआ हैं।
३) वासुदेव सिंह जीका विशेष नाम लिखिए।
४) जायसी जी का मूल नाम लिखिए।

विभाग ३ — विशेष अध्ययन— अंक १०

३) अ) निम्नलिखित पठित गद्यांश पढकर दी गई सूचनाओं के अनुसार कृतियाँ पूर्ण किजिए। (६अंक)

दोस्त—१ चलो—चलो वॉटर पार्क चलते हैं।
दोस्त—२ मेरी भी तो सुन लो कोई। वॉटर पार्क जाकर क्यों पैसा बर्बाद करते हो? दो दिन से लगातारबारिश हो रहा है, उससे पूरा शहर स्विमिंग पुल बना हुआ है, वहीं चलते हैं ।
दोस्त—३ हाँ, मिंटो ब्रिज का भी यही हाल है, पूरा डूबा हुआ है।
दोस्त—१ एक बात बताओ। ये ५—१० मिनट की बारिश से घटने तक पानी भर जाता है, इसकी वजहक्या है?
दोस्त—४ वजह मैं बताता हूँ। कल जो आप मोमोज खा रहे थे, चटनी लगा—लगाकर उसकी प्लेट कहाफेंकी था ?
दोस्त— १ वहीं रोड पर ।
दोस्त—४ और आप भाई साहब, दुकान से जो सामान लेते होय उसकी प्लास्टिक थैलियाँ, खाली डिब्बे,बोतलें कहाँ फेंकते हो?
दोस्त—२ घर के सामने नाले में ।

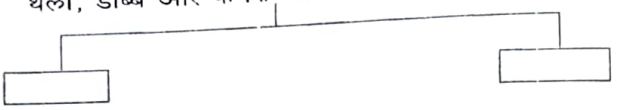
दोस्त—१ आपने हम दोनों को तो मिनरल दिया और खुद जो चबा रहे हो इसका पाउच कहाँ फेंकते हो? बोलो बोलो? आप भी वही करते हो न, जो सब करते है?

दोस्त—४ मैं तुम लोगों से अलग थोड़े ही हूँ, मैं भी वही फेंक देता हूँ, रास्ते में या नाली में।

दोस्त—२ हाँ और यही थैली, डिब्बे और कचरा नालियों के रास्ते जाता है नालों में, सीवर में और ये कूड़ा—कचरा और प्लास्टिक उसकी निकासी रोक देते हैं। तभी तो थोड़ी—सी बारिश हुई नहींकि पूरा शहर स्विमिंग पुल बन जाता है।

१) **आकृति पूर्ण किजिए ।** (०१)

थैली, डीब्बे और कचरा नालियों के रास्ते जाता है।



२) **कारण लिखिए।** (०२)

पूरा शहर स्विमिंग पूल बन जाता है।

१) ——————————————

२) ——————————————

३) **"जलसंवर्धन की आवश्यकता" इस विषयपर अपने विचार लिखिए।** (०२)

आ) निम्नलिखित के उत्तर ८० से १०० शब्दों में लिखिए । (२ में से १) (४अंक)

१) 'रक्तदान सर्वश्रेष्ठ दान' इस विषय पर अपने विचार लिखिए।

२) 'मौसम नुक्कड नाटक में वर्णित समस्याओं पर प्रकाश डालिए।

विभाग — ४: व्यावहारिक हिंदी/ पारिभाषिक शब्द / अपठित गद्यांश— अंक २०

कृति ४ **अ) निम्नलिखित के उत्तर १०० से १२० शब्दों में लिखिए । (२ में से १)** (६अंक)

१) मनोरंजन के क्षेत्र में हिंदी भाषा के माध्यम से रोजगार की संभावनाएँ लिखिए।

२) आर. जे बनने के लिए आवश्यक गुण लिखिए।

आ) निम्नलिखित के उत्तर ८० से १०० शब्दों में लिखिए। (२ में से १) (४अंक)

१) रेडिओ और टेलीविजन के लिए समाचार प्राप्त करने केसाधन लिखिए।

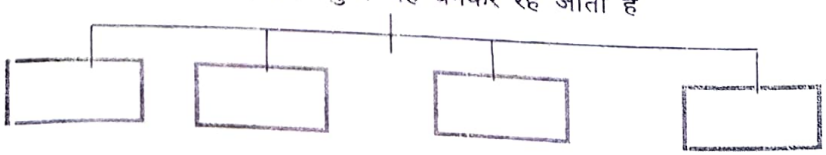
२) अंतर्राष्ट्रीय स्तर पर हिंदी रोजगार की भाषा बनती जा रही है' इस विषयपर अपने विचार लिखिए।

इ) निम्नलिखित अपठित गद्यांश पढ़कर दी गई सूचनाओं के अनुसार कृतियाँ कीजिए। (६अंक)

मनुष्य की सबसे बड़ी पूँजी विद्या है। विद्या के बिना सारा जीवन निरर्थक है। विद्या से मनुष्य को सोचने व समझने की शक्ति मिलती है। मनुष्य अच्छे व बुरे में अतर कर पाता है। विद्याहीन मनुष्य जड़, मूर्ख, आलसी और निरर्थक बनकर रह जाता है। विद्या से मनुष्य में चेतना का संचार होता है। विद्या का अर्थ सिर्फ किताबी ज्ञान नहीं होता है। विद्या कई प्रकार की हो सकती है। इसके चमत्कार से पोथी पढ़नेवाला पंडित बन जाता है। लोहे का काम करनेवाला लोहार बन जाता है। कपड़े का काम करने वाला दर्जी बन जाता है। बाल काटनेवाला नाई बन जाता है। विद्या एकमात्र ऐसा धन है, जिसे जितना बाँटा जाए वह बढ़ता जाता है, उसे कोई चोर चुरा नहीं सकता है, उसे पानी डुंबा नहीं सकता है और अग्नि जला नहीं सकती है। विद्या के कारण ही आज मानवजाति ने इतनी प्रगति की है। यदि विद्या नहीं होती, तो मनुष्य उन्हीं जंगलों और पहाड़ों में गुम हो जाता, जिनसे निकलकर आज उसने इस वैज्ञानिक युग की शुरुआत की है। विद्या ही एकमेव साधन है, जो हमारे जीवन को सार्थक बना सकती है। विद्यार्जन करके मनुष्य सभी जीवों का सहायक बन सकता है अतः संपूर्ण जीवों के हित के लिए हम सभी को विद्या के प्रचारप्रसार में तन, मन और धन से जुट जाना चाहिए।

१) **संजाल पूर्ण किजिए।** (०२)

विद्याहिन मनुष्य राह बनकर रह जाता है



(२) निम्नलिखित शब्दों के लिंग बदलकर लिखिए। (०२)

१) पंडित – २) दर्जी – ३) लोहार –४) चोर –

(३) हस्तकला उदयोग को बढावा देने के संदर्भ मे अपने विचार लिखिए। (०२)

ई) निम्नलिखित शब्दों के लिए हिंदी पारिभाषिक शब्द लिखिए।(८ में से ४) (४अंक)

१) Command – ५) Mechanics –

२) Hard copy– ६) Nutrition –

३) Director– ७) Governor –

४) Network– ८) Validity –

विभाग ५–व्याकरण अंक १०

५) अ) निम्नलिखित पंक्तियों में उद्धृत अलंकार पहचानकर उसका नाम लिखिए।(३ में से २) (०२)

१) मैं सुकुमारी नाथ बन जोगू।
तुमहिं उचित तप मोह कहँ भोगू ।

२) तीन बेर खाती,
ते वे तीन बेर खाती हैं।

३) चारू चंद की चंचल किरणें, खेल रही थीं जल–थल में।

आ) निम्नलिखित पंक्तियों में उदधृत रस पहचानकर उसका नाम लिखिए। (३ में से २) (०२)

१) जसौदा हरि पालनें झुलावै।
हलरावे दुलराइ मल्हावे, जोइ सोइ कुछ गाँवे।

२) अबला जीवन हाय। तुम्हारी यही कहानी,
आँचल में है दूध और आँखों में पानी,

३) मैं ऐसा शूर वीर हूँ, पापड तोड़ सकताहूँ।'
अगर गुस्सा आ जाए कागज मरोड़ सकता हूँ ।।

इ) निम्नलिखित मुहावरों का अर्थ बताकर वाक्य में प्रयोगकीजिए। (३ में से २) (०२)

१) फूला न समाना –

२) हाथ–पैर मारना–

३) इतिश्री होना –

ई) निम्नलिखित वाक्यों के दी गई सूचनाओं के अनुसार कालपरिवर्तन करके वाक्य फिर से लिखिए। (०२)
(३ में से २)

१) वे मुझे 'योगा' के फायदे समझाते हैं। (भविष्यकाल)

२) मछुवे ने मधुवी को छोटी मछली की कथा सुनाई। (अपूर्ण भूतकाल)

३) आदमी यह देख कर डर गए। (सामान्य वर्तमानकाल)

उ) निम्नलिखित वाक्यों को शुद्ध करके लिखिए। (३ में से २) (०२)

१) उसे तो मछुवे पर दया करना चाहिए था।

२) मैं फिल्म देखने जाता है।

३) इसकी काम आएगा।

Date:- 1 8 MAR 2024

Navkonkan Education Society's
D.B.J. College, Chiplun
Annual Examination 2023-2024
Class-XI Science

Roll No.

Time:-2:30 Hrs. Sub :–Information Technology Pages:-2 Marks:-80

Note: All questions are compulsory

Q.1 Fill in the blanks (10)

1. HTML provides ____ level of headings.
2. The _____ software refers to the software which releases code in public domain for anyone to use.
3. The _____ is collection of interrelated data.
4. _____ is the principle of right and wrong behavior.
5. In _____ Network Architecture all machines are called as peers.
6. HTML page is divided into two section head section and _____ section.
7. The ____ data type is used for storing numerical value.
8. _____ is carried out by email spoofing.
9. _____ consists of column and rows.
10. The ___ are keywords enclosed withir angular brackets in HTML.

Q.2 State TRUE or FALSE (10)

1. Asha is a closed source Operating System.
2. Variable name must start with number.
3. Information helps in decision making.
4. LAN is difficult to setup.
5. Cyber laws are contained in the IT Act 2000.
6. Methods of form are GET and POST.
7. Time data type holds date.
8. Single line comment begins with //.
9. DBMS takes care of backup and recovery.
10. Cyber security can involve criminal activities like theft, fraud etc.

Q.3 A Multiple Choice Single Correct Answers. (10)

1. The time data types hold data in _____ format in database.
   a) MM:HH:SS b) SS:MM:HH c) HH:MM:SS d) HH:SS:MM
2. In Linux users home directories are stored in _____.
   a) /tmp b) /bin c) /etc d) /home
3. <input type=" _____"> creates a single line textbox.
   a) Text b) Textbox c) Box d) Text area
4. Gaining access without user's permission is known as _____.
   a) Authorized access b) software piracy c) Unauthorized access d) copyright
5. The _____ data type stores a fixed length string.
   a) Char b) Varchar c) Number d) Text
6. The _____ function returns true if given value is not a number.
   a) isInt() b) isNumber() c) isNaN() d) isFloat()
7. OCR is a ___ device.
   a) Output b) input c) input and output d) all of these
8. For protection of data the network should be protected with _____.
   a)LAN b) MAN c) WAN d) Firewall
9. In _____ system database is required to keep record of train ticket booking.
   a)Railway Reservation b) Banking c) Library Management d) Airline Booking
10. Operators that require one operand is called as _____ operators.
    a)Binary b) Unary c) Undefined d) Null

Q.4 Multiple Choice Questions (Two Correct Answers) (20)

1. Numeric's has following data types in DBMS.
   a) Integer b) Decimal c) Number d) Int e) Text
2. Following are the examples of empty tags.
   a)
 b) <hr> c) <table> d) <p> e) <head>
3. Following are the operating systems for mobile phones.
   a) Dos b) Blackberry c) Asha d) Linux e) Unix
4. Following are the relational operator used in java script.
   a) >= b) <= c) ++ d) -- e) %

5. Following are popular DBMS.
   a)Postgre SQL b) SQL Server c) MS-Word d) Managing e) Libre office writer
6. The IT Act 2000 was amended in ___ and ____.
   a) 2005 b) 2008 c) 2011 d) 2001 e) 2002
7. Various career opportunities available for I.T. professionals are _____.
   a)Data centers b) Electronic publishing c) cyber advisor
   d) software developer e) Medical store
8. Examples of protocols are _____.
   a) POP3 b) MTP c) HTTP d) STP e) DMS
9. Following are the types of key in RDBMS.
   a) Primary key b) Local key c) Standard key d) Foreign key e)Duplicate key
10. Decision making statements in JavaScript,
    a) Looping b) calculating c) if statement d) if else statement e) Switch case

Q.5 Multiple Choice Questions (Three Correct Answers) (06)

1. Mouse events in JavaScript.
   a)onMouseOut b)onMouseUp c) onMouseOver d) onMouseClick e) onKeyDown f)onMouseDown
2. Following are the types of relationships.
   a)One- to- all b) one- to- none c) one- to- one d) one- to- many e) many- to- many f) none of these

Q.6 Match the following. (04)

Column A	Column B
1. cd	a) to create table
2. Logical operator	b) software piracy
3. create	c) >=
4. Cyber crime	d) change directory
	e) &&

Q.7 A Answer In Brief. (any five) (10)

1. Explain any four Linux commands.
2. Define a term of Field and Record.
3. Write down Features of JavaScript.
4. Explain types of Network.
5. Explain any five Don'ts for students in cyber world.
6. Explain any three Advantages of DBMS.
7. Write a Short Note on Software Piracy.
8. Explain any four built in functions in JavaScript.

Q.8 Write a Program

1. Write html code to display a web page with heading "My Form", create form to accept user name and address. Provision should be made to submit the contents to server & clear data. (10)

   OR

   Write html code to display a web page with background color red and insert any four text formatting element (basic physical tag).

2. Write a JavaScript program to Demonstration user define function (use of function in JavaScript).

   OR

   Write a JavaScript program to check age is qualifies for driving or not, show the alert message by using onClick event.

Date :- / /2024
19 MAR 2024

Navkonkan Education Society's
D.B.J. College, Chiplun

Roll No.

XI Annual Examination 2023-24

Time:- 3 Hrs. Sub:- Agriculture Science and Technology Pages:- 2 Max. Marks:- 70

Note:- 1. All Questions are compulsory.
2. Draw neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks.
4. Write answers of all questions on new pages.

Q.1. Answer the following questions. **[18]**

A) Select the appropriate alternative and complete the following statements. **(5)**

1) Drip method of irrigation is suitable for..... crops.

a) Banana b) Rice c) Bajara d) Wheat

2) Nitrogen, phosphorus and potassium are the ..... plant nutrients.

a) Tertiary b) Secondary c) Primary d) Trace

3) Summer crop is usually sown in the month of .....

a) April-March b) January-February c) November-December d) June-July

4) Hard mass of mineral matter comprising of two or more minerals is called as --------

a) Rock b) Minerals c) Metamorphic d) Decomposition

5) Apex institute governing agriculture education in India is.....

a) IARI b) ICAR c) NBPGR d) CPCRI

B) Make the pairs. **(4)**

Group A	Group B
1) Weeding	a) Loranthus
2) Mango	b) Housefly
3) Store grain pest	c) CD
4) E- waste	d) Garbage
	e) Grain weevil
	f) Khurpi

C) Find the odd one out **(4)**

1) Drip / Sprinkler / Ring / Budding.

2) Nitrogen / Phosphorus / Borax / Potassium.

3) Broadcasting / Drilling / Dibbling / Roughing.

4) Ghaneri / Cacti / Mendhi / Mango.

D) Write whether the following statements are 'True' or 'False'. **(5)**

1) Lavala is a weed of ill drained soil.

2) Compost is the concentrated organic manure.

3) Reducing the number of tillage operations is called as zero tillage.

4) Drip irrigation method saves more than 90 % water.

5) Coir is an important product made from coconut husk.

Q.2. Write answer of the following questions in brief. (Any Five) (10)

1) Give the disadvantages of broadcasting. .

2) Enlist name of bio-fertilizers.

3) Give components of watershed.

4) Write full form of ICAR.

5) Write purpose of mulching.

6) Enlist name of exotic vegetable crops.

7) What is weather forecasting?

Q.3. Answer the following questions. (Any Four) (12)

1) Describe the methods of weather forecasting.

2) Give advantages of zero tillage.

3) Write advantages of contract farming.

4) Define irrigation and give adverse effect of irrigation.

5) State criteria of essentiality.

6) Explain broadcasting with examples of crops

7) Write purpose of mulching.

Q.4. Answer the following questions (Any four) (16)

1) Give classification of essential elements.

2) Write objectives of seed treatments.

3) Write short note on minimum tillage with its advantages.

4) State uses of drone in agriculture.

5) Give uses of Cashewnut

6) State medicinal properties of lemongrass.

Q.5. A) Answer the following questions in details (Any One) [14] 06)

1) Write the importance of horticulture.

2) Describe mechanical or physical methods of weed control.

B) Answer the following questions in details (Any One) (08)

1) Write in detail about selection of site for an orchard

2) Enlist and explain different methods of sowing.

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