



# SUKUNA SECONDARY SCHOOL

Sundarharaincha-10, Morang

## SECOND TERMINAL EXAMINATION-2080

Class: XII(Science)

Full Mark: 50

Subject: Physics (1021)

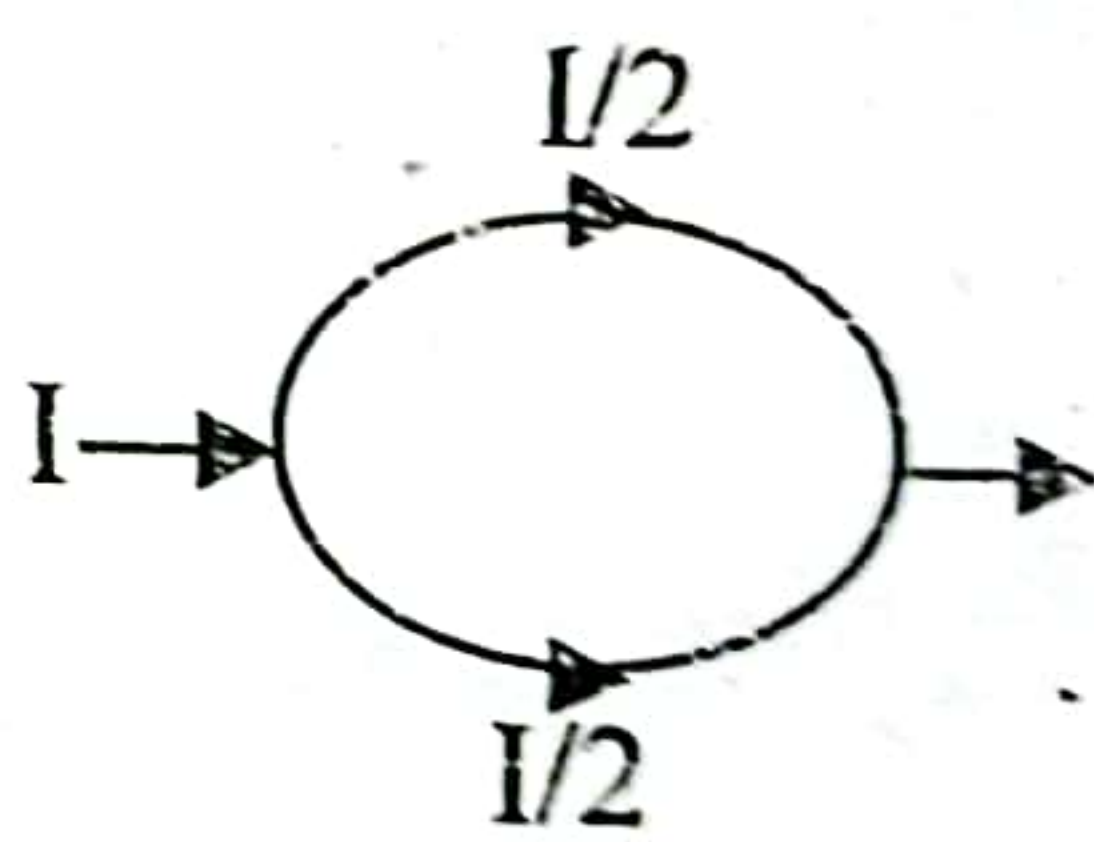
Time: 2 Hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margins indicate full marks.

### Group 'A'

[9×1=9]

Rewrite the correct options of each question in your answer sheet.

1. In S.H.M, the kinetic energy is minimum at
  - a) Mean position
  - b) Extreme position
  - c) Midway between the mean and extreme position
  - d) Non of them
2. The viscosity of an ideal fluid is
  - a) 1
  - b) 0.5
  - c) 0
  - d)  $\infty$
3. An ideal heat engine working between temperatures  $T_1$  and  $T_2$  has efficiency  $\eta$ . If both the temperatures are raised by 100 K each, the new efficiency of the engine will be
  - a)  $\eta$
  - b) more than  $\eta$
  - c) less than
  - d) depends upon the nature of working substance
4. A straight conductor carrying a current  $I$  is split into circular loops as shown in figure. Then, the magnetic induction at the center of the circular loop of radius  $r$  is
  - a) 0
  - b)  $\infty$
  - c)  $\mu_0 I / 2r$
  - d)  $\mu_0 I / 2\pi r$
5. A charge of 2 C moving with velocity 0.5 m/s at an angle of  $80^\circ$  with the magnetic field of 4 T experiences forces of
  - a) 1 N
  - b) 2 N
  - c) 4 N
  - d) 0.5 N
6. Photons of energy 10.25 eV fall on the surface of the metal emitting photoelectrons of maximum kinetic energy 5.0 eV. What is the stopping potential voltage required for these electrons?
  - a) 10 V
  - b) 4 V
  - c) 8 V
  - d) 5 V
7. Huygen's concept of secondary wavelets may be used to
  - a) the velocity of light in vacuum
  - b) find the new position of wavefront
  - c) explain the particle behaviour of light
  - d) polarization behaviour of light



8. The area of the Hysteresis curve indicates  
 a) Retentivity  
 b) Coercivity  
 c) Loss of energy per cycle  
 d) Gain of energy per cycle
9. If the cold junction of a thermocouple is kept at  $0^\circ\text{C}$  and hot junction is kept at  $\theta^\circ$ , then the relation between neutral temperature  $\theta_n$  and temperature of inversion  $\theta_i$  is  
 a)  $\theta_n = \theta_i$   
 b)  $\theta_n = \theta/2$   
 c)  $\theta_i = \alpha \theta_n + \beta \theta_n^2$   
 d) Non of above

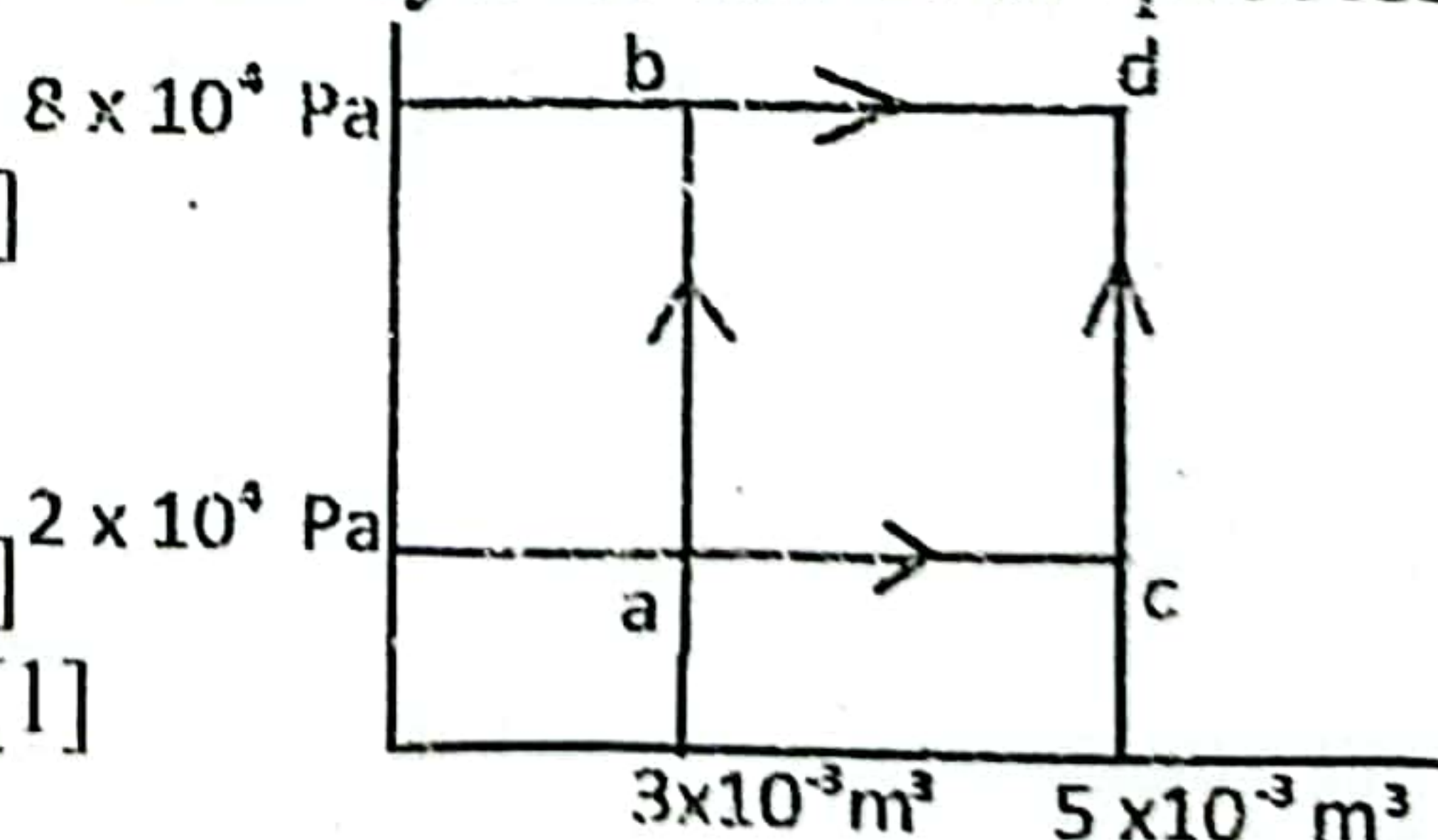
### Group "B"

[5×5=25]

10. (a) Define moment of inertia. Write down one application of angular momentum in your daily life. [1+1=2]  
 (b) A disc of moment of inertia  $5 \times 10^{-4} \text{ Kg m}^2$  is rotating freely about the axis through its center at 40 revolutions per minute. Calculate its new angular frequency if some wax of mass 0.02 Kg dropped gently on the disc 0.08 m from the axis. [3]
11. (a) Define simple harmonic motion. Show that the motion of a simple pendulum is SHM. [1+2]  
 b) A body of mass 1.2 Kg is attached to the weightless spring placed on the horizontal table. The displacement equation is given as  $y = 0.76 \text{ m Cos } [(3.24 \text{ rad/s})t - \frac{\pi}{4}]$ . Find the force constant of the spring. [2]

OR

- (a) Define capillarity? Why is soap solution better cleaning agent than ordinary water? [1+2]  
 b) A rain drop of radius 0.3 mm has a terminal velocity of 1 m/s in air. The viscosity of air is  $18 \times 10^{-5}$  Poise. Calculate the viscous force on the drop [2]
12. A series of thermodynamic process is shown in the PV diagram as shown in fig. In the process ab, 150 J of heat is added to the system and in the process bd, 600 J of heat is added. Find,  
 i) Work done in the process ab. [1]  
 ii) Change in internal energy in the process ab. [1]  
 iii) Work done in the process bd. [2]  
 iv) Change in internal energy in abd. [1]



13. a) Figure below shows the experimental setup on Millikan's oil drop experiment. Find the expression for a charge of an oil drop of radius  $r$  moving with constant velocity  $v$  in a downward direction using a free body diagram. [2]



b) What will be the expression for the charge of an oil drop if the electric force is greater than its weight? [1]

c) Determine the electric field supplied when the electric force applied between the two horizontal plates just balances an oil drop with 4 electrons attached to it and mass of oil drop is  $1.3 \times 10^{-14}$  Kg. [2]

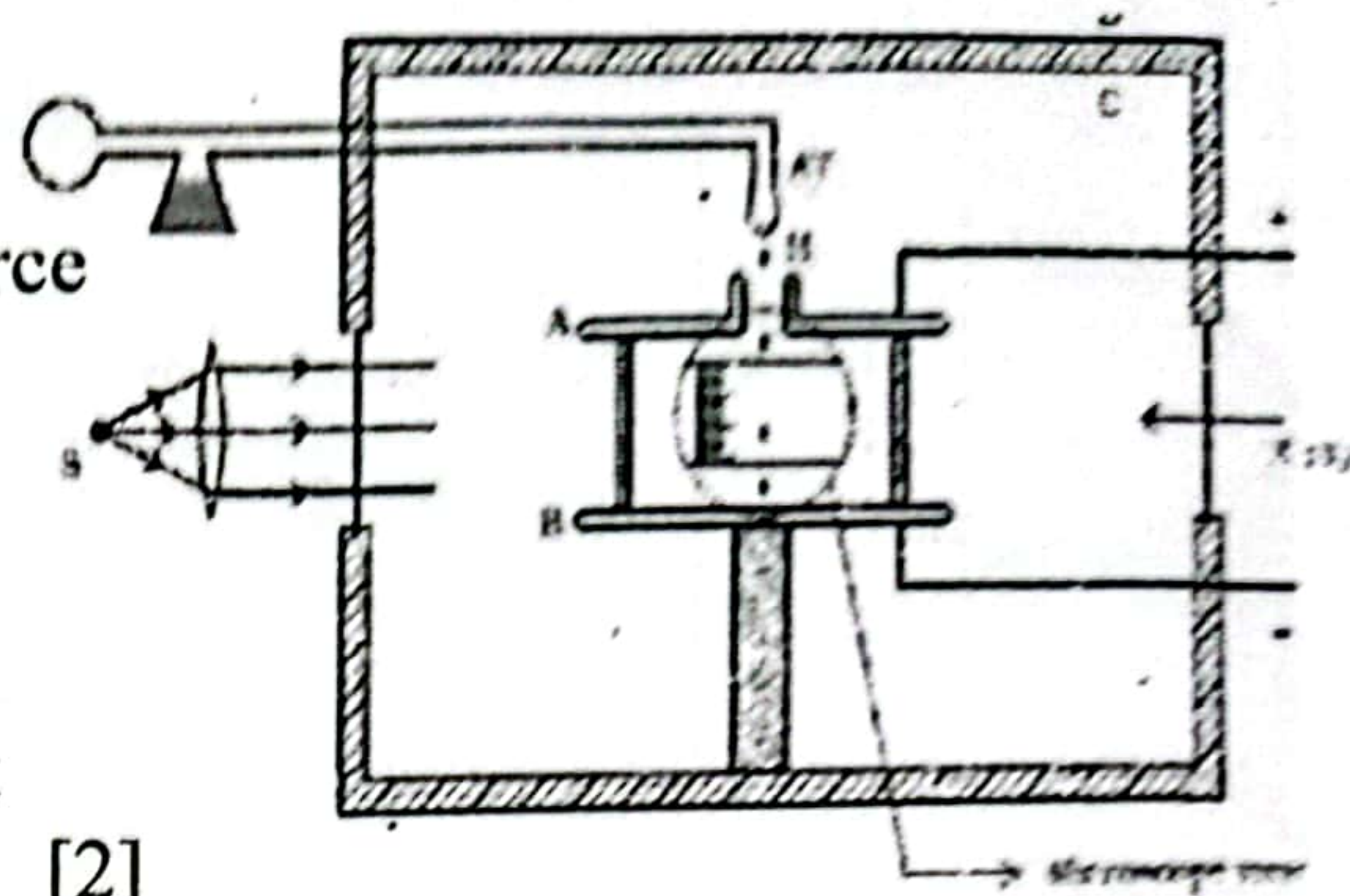


Fig 6.5 Millikan's oil drop experiment

OR

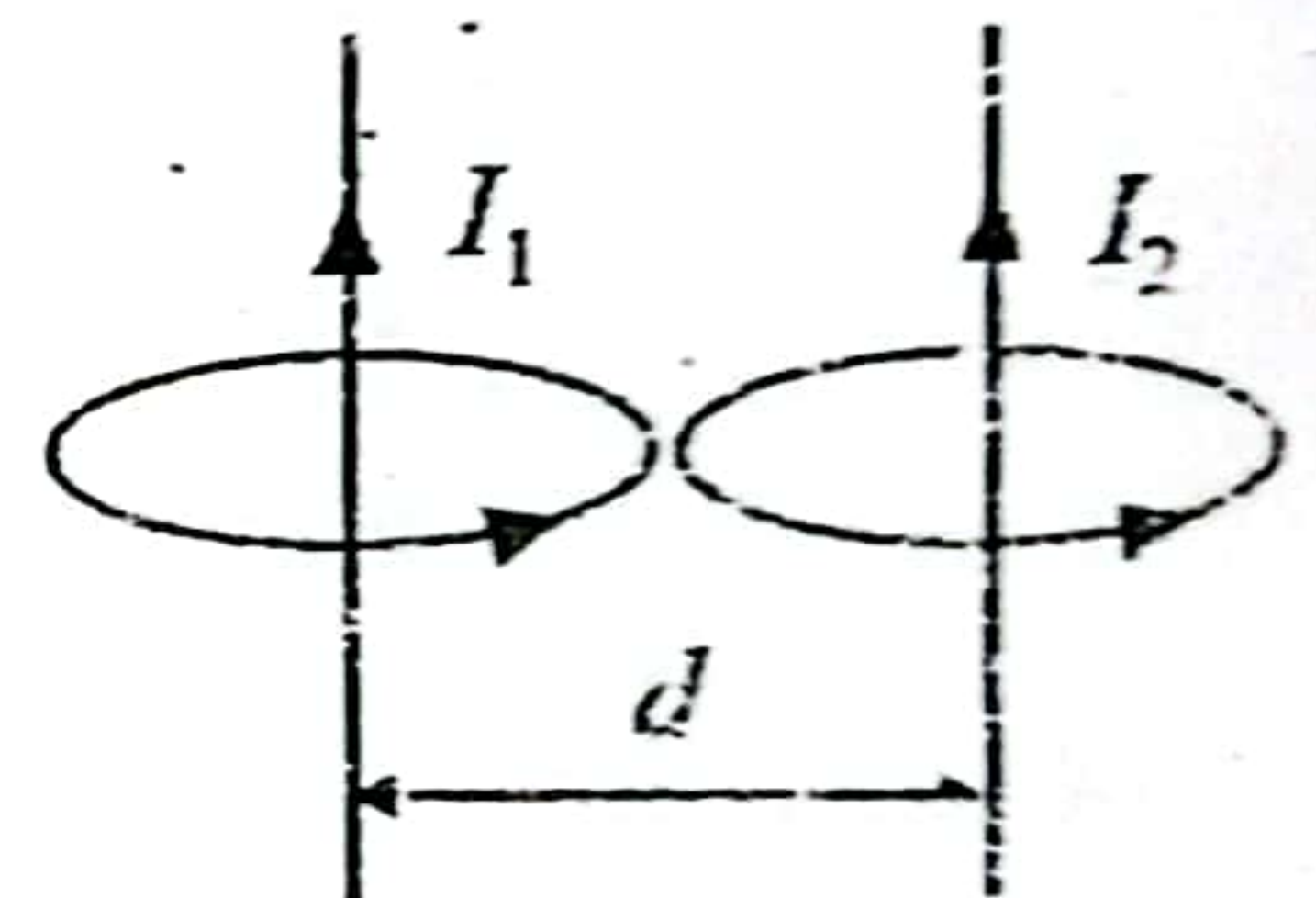
- a) Write down the Bohr's postulates of Hydrogen atom. [1]  
 b) Derive the expression for the Bohr's radius for hydrogen atom. [2]  
 c) Determine the de-Broglie wavelength of an electron having kinetic energy 0.4 eV. [2]

14. a) Consider two conductors X and Y carrying currents  $I_1$  and  $I_2$  are placed in air at a distance  $d$  apart as shown in figure.

i) Find the magnitude of the force between them. [2]

ii) What is the nature of the force in this case? [1]

iii) Define one ampere current on the basis of the force between parallel current carrying conductors. [2]



Group "C"

[2×8=16]

15. ✓ a) A string is stretched between two fixed ends as shown in figure. if we pluck from at any section of the string, it starts to vibrate.

Now, answer the following,

i) What type of waves are produced? [1]

ii) Derive the expression of frequency for the fundamental modes of vibration? [2]

b) Nodes and Antinodes are produced in the given string. Define nodes and antinodes with neat diagram on the basis of amplitude. [2]

c) A Piano string has a length of 2m and density of  $8000 \text{ Kg m}^{-3}$ . When the tension in the string produces a strain of 1%, the fundamental note obtained from the string in transverse vibration is 170 Hz. Calculate the Young's modulus of elasticity. [3]



OR

a) What do you mean by pressure amplitude? [1]

b) On which factor, the quality of the sound depends? The roaring of lion is different from the humming of a mosquito. Why? [1+2]

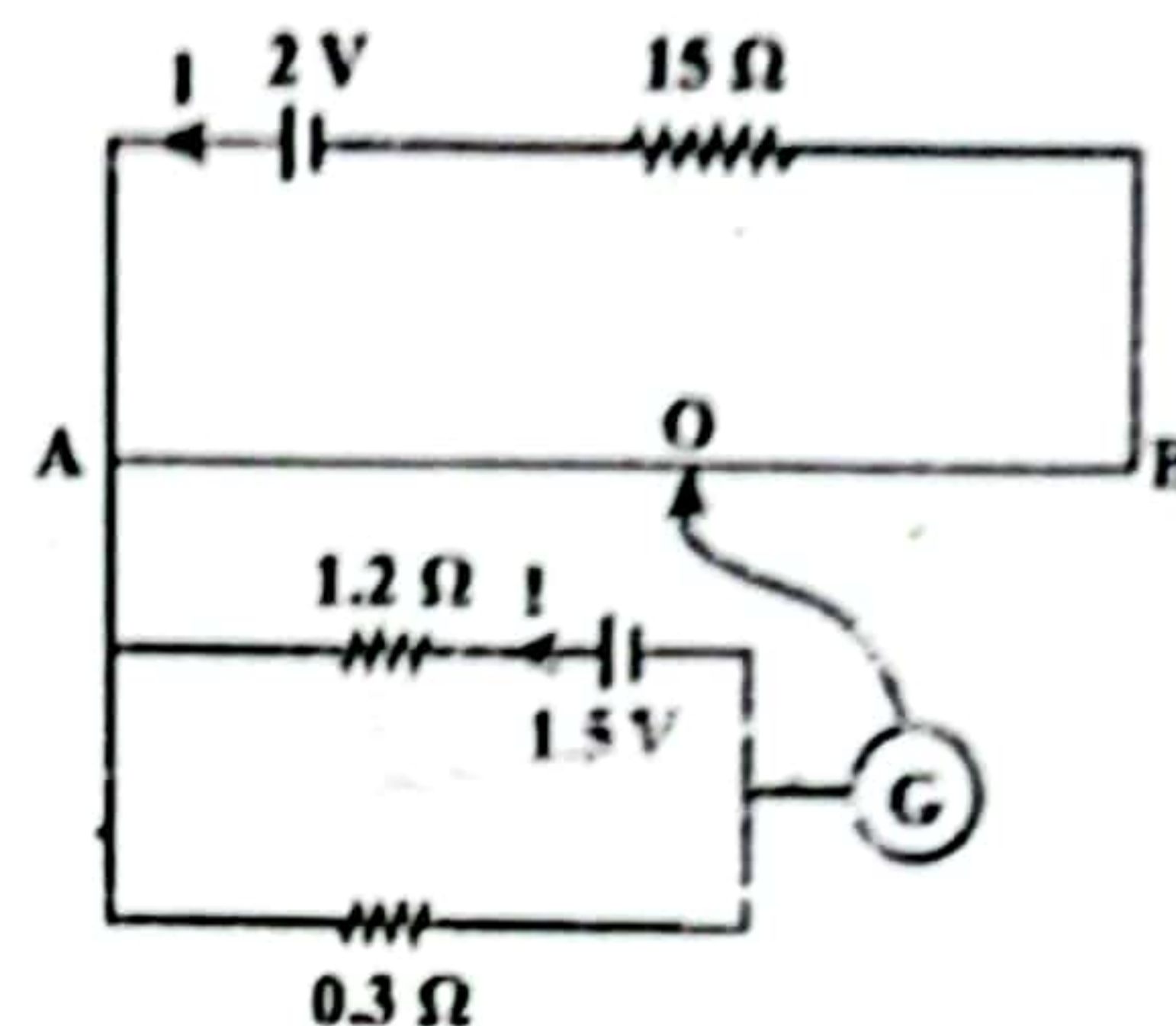
c) Write down the expression for the apparent frequency when the source is moving away from the stationary observer. Write down one application of Doppler's effect. [1+1]



d) A car, sounding a horn and producing a note of 500 Hz, approaches and then passes a stationary observer at a steady speed of 20 m/s. Calculate the change in frequency heard by the observer. Velocity of sound is 340 m/s. [2]

16. a) What do you mean by the balanced condition of Wheatstone Bridge Principle? Derive an expression for the balanced condition of it. [1+3]

b) In the following potentiometer, circuit AB is a uniform wire of length 1m and resistance  $10\ \Omega$ . Calculate the potential gradient along the wire and balance length AO. Write down one application of the potentiometer. [1.5+1.5+1]



"GOOD LUCK"

Note Mandir





# SUKUNA SECONDARY SCHOOL

Sundarharaincha-10, Morang

Second Terminal Examination-2080

Class: XII(Science)

Subject: Chemistry

F. M.- 50

Time-2Hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margins indicate full marks.

## Group-A

### Multiple choice question

[1x9=9]

1. Molecular mass of tribasic acid is  $M$ . Its equivalent mass will be.  
a.  $M/3$   
b.  $3M$   
c.  $M/2$   
d.  $2M$
2. The rate of reaction depends upon:  
a. atomic mass  
b. Equivalent mass  
c. Molecular mass  
d. Active mass
3. Which of the following is the concentration of  $H^+$  in standard hydrogen electrode (SHE)?  
a.  $1M$   
b.  $0.01M$   
c.  $0.1M$   
d.  $2M$
4. Chloroform react with compound D to give chloropicrin which is used as an insecticide and war gas, D is:  
a. Nitrous acid  
b. Nitric acid  
c. Sulphonic acid  
d. Sulfuric acid.
5. The alcohols containing  $>CHOH$  group are called:  
a.  $2^\circ$  alcohols  
b.  $1^\circ$  alcohols  
c.  $3^\circ$  alcohols  
d. None of these
6. Carboic acid is:  
a. Phenol  
b. methanol  
c. formic acid  
d. acetic acid
7. Hydrogenation of benzoyl chloride in presence of Pd on  $BaSO_4$  gives  
a. Benzyl alcohol  
b. Benzaldehyde  
c. Benzoic acid  
d. Phenol
8. Molecular formula of philosopher's wool is  
a.  $ZnSO_4 \cdot 7H_2O$   
b.  $ZnS$   
c.  $ZnO$   
d. None
9. For first order reaction, the half life time is  
a.  $a/k$   
b.  $a/2k$   
c.  $0.693/k$   
d. infinity



## Group- B

### Short answer question

(5X5=25)

10. Volumetric analysis is a quantitative method which is based on the law of equivalence.
- a. Define end point and equivalence point. [2]
- b. 4 g of divalent metal was dissolved in 100 cc of 2M  $\text{H}_2\text{SO}_4$  ( $f=1.01$ ). The excess of acid requires 30cc of 1N NaOH for complete neutralization. Find the atomic mass of metal. [3]
11. What is meant by primary reference electrode? Mention its one important use. The standard electrode potential are given as,
- $$E^\circ \text{Zn}^0/\text{Zn}^{+2} = +0.76\text{V}_{\text{an}}$$
- $$E^\circ \text{Fe}^{+3}/\text{Fe}^{+2} = +0.77\text{V}_{\text{cat}}$$
- a. Construct the galvanic cell notation indicating anode and cathode.
- b. Calculate the e.m.f. at 1M solution of ion.
- c. Will the reaction  $\text{Zn}^{2+} + 2\text{Fe}^{2+} \rightarrow \text{Zn} + 2\text{Fe}^{3+}$  occur? [1+1+1+1+1=5]
12. An organic compound 'A' when heated with Ag powder gives  $\text{C}_2\text{H}_2$  and form carbonyl chloride when exposed to air.
- a. Identify the compound 'A'. [1]
- b. Write the reaction for the laboratory preparation of 'A' from acetone. [2]
- c. Why does compound 'A' not give white precipitate with aqueous silver nitrate? [1]
- d. Convert 'A' into methanoic acid. [1]
13. Important compound non transition metal zinc which is used as eye lotion and is also called white vitrol. [1+1+1+1+1=5]
- a. Write the main ore of zinc.
- b. Write down the method of preparation of white vitrol.
- c. Why does zinc becomes dull in moist air?
- d. Define galvanization.
- e. Stainless steel is an alloy of alloy. Why?

OR

Convert ethoxyethane from bromoethane by using Williamson's synthesis.

- a. Ether is stored in a bottle containing iron wire.
- b. It is dangerous to boil old sample of ether.
- c. Ethers are insoluble in water.
- d. Convert phenol into anisole. [1×5=5]



15. Write an example of each of the following reactions. [1x5=5]
- Cannizzaro's reaction
  - Benzoin condensation
  - Rosenmund's reduction
  - Clemmensen reduction
  - Aldol condensation

### Group- C

#### Long answer questions

[8X2=16]

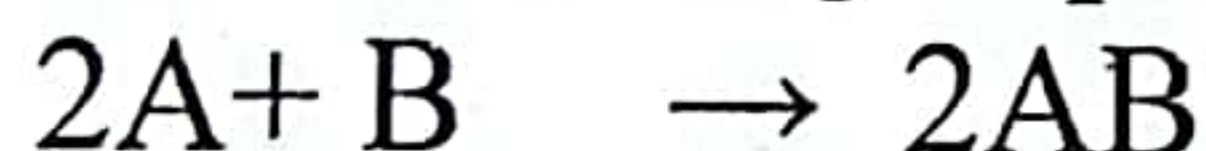
15. a. Write a chemical reaction for the preparation of phenol from Dow's process. [1]
- b. Compare the acidic strength of phenol and aliphatic alcohol. [2]
- c. An aliphatic haloalkane (A) is heated with aq. KOH to give (B). The compound (B) reacts with  $\text{SOCl}_2$  to produce (C). The compound (C) further reacts with AgCN to yield (D). On reduction of compound (D) with  $\text{LiAlH}_4$  produces (E). The compound (A) undergoes wurtz reaction to give an alkane of molecular formula  $\text{C}_4\text{H}_{10}$ . Identify (A), (B), (C), (D) and (E) with IUPAC name. Also write reactions involved. [5]

OR

A catalyst causes to alter the rate of reaction by altering the activation energy.

- What do you mean by activation energy? [1]
- Show that half-life-period of first order reaction is independent of initial concentration of reactant. [2]

From the following experimental data for the reaction.



| Experiment no. | [A] molL <sup>-1</sup> | [B] molL <sup>-1</sup> | Rate molL <sup>-1</sup> min <sup>-1</sup> |
|----------------|------------------------|------------------------|-------------------------------------------|
| 1              | 0.01                   | 0.01                   | 0.005                                     |
| 2              | 0.02                   | 0.01                   | 0.010                                     |
| 3              | 0.01                   | 0.02                   | 0.005                                     |

- What is the overall order of reaction? [2]
  - Calculate the value of rate constant. [2]
  - What is the half life of A? [1]
17. An alcohol (Z) having molecular formula  $\text{C}_3\text{H}_8\text{O}$  undergoes Victor-Meyer's test to give blue colour at the end of the reaction when added KOH solution.
- Draw structural formula of (Z) and write IUPAC name. [1]



- b. Write down complete chemical reaction for the Victor-Meyer's test of (Z). [2]
- ✓ c. How would you prepare (Z), starting from  $\text{CH}_3\text{MgBr}$ ? [2]
- ✓ d. What product would you obtain when (Z) is oxidized? [1]
- e. Convert ethanal into propan-2-ol. [2]

-O-

Note Mandir





# SUKUNA SECONDARY SCHOOL

Sundarharaincha-10, Morang

SECOND TERMINAL EXAMINATION-2080

Class: XII

Full Mark: 50

Subject: Mathematics

Time: 2 Hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margins indicate full marks.

Group 'A'

[9×1=9]

Rewrite the correct options of each question in your answer sheet.

1. The equation  $3x^2 + 3y^2 + 5x - 7y - 2 = 0$  represents

- a. an ellipse      b. a circle      c. parabola      d. hyperbola

2. If  $c(18, r) = (18, r+2)$  then the value of  $r$  is

- a. 8      b. 9      c. 10      d. 11

3. The term free from  $y$  in the expansion of  $(y^2 + \frac{1}{y})^{12}$  is

- a. 8th      b. 9th      c. 11th      d. 12th

4. The  $n$ th term of series  $1+3+7+15+31+\dots$  is

- a.  $2^n$       b.  $\frac{1}{2}(2^n + 1)$       c.  $\frac{1}{3}(2^n - 1)$       d.  $2^n - 1$

5. The system of equations,  $x - 2y + 5z = 8 \dots \dots \dots$  i,  $3x - y - z = 2 \dots \dots \dots$  ii,  $5x + 8y - 2z = 10 \dots \dots \dots$  iii will be diagonally dominant if the order of equations be

- a. i, ii, iii      b. i, iii, ii      c. ii, iii, i      d. ii, i, iii

6. The equations of tangent to the curve  $y^2 = 4x$  at the point  $(1, 2)$  is

- a.  $x + y = 1$       b.  $x - y = 1$       c.  $x + y + 1 = 0$       d.  $x - y + 1 = 0$

7. In triangle  $\Delta ABC$  if  $A = 45^\circ$ ,  $B = 75^\circ$ , and  $c = 10\sqrt{6}$  then  $a = ..$

- a. 20      b.  $20\sqrt{3}$       c. 10      d. 6

8. The infinite series  $1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \dots$

- a.  $\log 2$       b.  $\log e$       c.  $\log \frac{3}{2}$       d.  $\log \frac{2}{3}$

9. The eccentricity of the ellipse  $4x^2 + 9y^2 = 36$  is

- a.  $\frac{2}{3}$       b.  $\frac{\sqrt{5}}{3}$       c.  $\frac{\sqrt{5}}{4}$       d.  $\frac{\sqrt{5}}{9}$



## Group "B"

[5×5=25]

10. a. Show that number of ways in which the letters of the word 'COLLEGE' can be arranged so that the two E's always come together is 360? 2
- b. Six men in a group of 8 skilled. Find the number of ways by which 5 men can be selected such that
- at least 3 of them may be skilled man?
  - at least one of them may be unskilled men? 3
11. a. If the three consecutive coefficients in the expansion of  $(1+x)^n$  be 165, 330, 462, then find value of n? 2
- b. Expand  $\log(1-x)$  and prove that  $1 + \frac{1+2}{2!} + \frac{1+2+2^2}{3!} + \dots = e^2 - e$  1+2
12. a. Solve by using De-moivre's theorem  $Z^4 + 1 = 0$  3
- b. Prove by induction method  $9^n - 1$  is divisible by 4 where n is positive integer. 2
13. a. In any triangle prove that
- $$a \cos B \cos C + b \cos C \cos A + c \cos A \cos B = \frac{\Delta}{R}$$
- 2
- b. Solve by using Cramer's rule  $3x+5y=2, 2x-3z=-7, 4y+2z=2$  3
14. Solve by simplex method and find optimal solution
- Minimize  $z = 4x + 8y$  s.t.  $2x + y \geq 6, x + 2y \geq 6, x, y \geq 0$  5

## Group "C"

[8×2=16]

15. a. Find derivative of  $\cos x \sin x^{-1}$  2
- b. A ship sailing east at 15 km/hr passed a point A at 11 AM. A second ship sailing south at 10 km/hr passed A at 9 AM. How fast were the ships separating at 1 PM? 2
- c. Integrate  $\int \frac{dx}{2 \sin x + 5 \cos x}$  2
- d. Solve by Gauss Seidel method  $x+5y=25, 5x+4y=9$  2
16. a. Find the equation of normal to parabola  $y^2 = 3x$  and perpendicular to the line  $3x+2y=8$ . 3
- b. Find the vertices, eccentricity, foci, length of transverse and conjugate axes and length of latus rectum  $9x^2 - 16y^2 - 18x - 64y - 199 = 0$  3
- c. Find the equation of tangents to the circle  $x^2 + y^2 = 25$  drawn through the point (13, 0). 2

!!! Best of luck !!!



**Sukuna Secondary School**  
**Sundarharaincha-10, Morang**  
**Second Terminal Examination-2080**

Grade: XII

Time: 2 hrs

F.M: 50

Subject: Computer Science (4281) P.M:

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Group 'A' (Multiple Choice Questions)**

**Attempt all questions [9×1=9]**

**1. Tick the best alternatives.**

a. Which of the following SQL statement is used to DELETE rows from a database table?

i. DELETE

ii. REMOVE

iii. DROP

iv. CLEAR

b. What does "MAC" stands for in MAC Address?

i. Micro Access Control ii. Media Access Certificate

iii. Media Access Control iv. Mandatory Access Control

c. What is the output of the statement "printf("%d", (a++)) in C programming?

i. The current value of a

ii. The value of a increment by 1

iii. Error

iv. Garbage

d. Which feature of OOP is illustrated the code reusability?

i. Encapsulation

ii. Data abstraction

iii. Inheritance

iv. Polymorphism

e. Which of the following statements is true about a star network topology?

i. Each device is connected to a switch or hub

ii. Each device is connected to each other

iii. Each device is connected in a trunk

iv. Each device is connected to a terminal

f. Primary key can be \_\_\_\_\_.

i. Null

ii. Not Null

iii. Both Null and Not null

iv. Depends on situation



- g. Artificial Intelligence is about \_\_\_\_\_ .
- i. Playing a game on computer
  - ii. Making a machine intelligent
  - iii. Programming on machine with your own intelligence
  - iv. Putting your intelligence in Machine
- h. IoT stands for \_\_\_\_\_ .
- i. International of Technology ii. Internet of Technology
  - iii. Internet of Things iv. International of Things
- i. In which phase of SDLC software code is done?
- i. Analysis ii. Design
  - iii. Development iv. Maintenance

**Group 'B'**

**Give short answer to the following questions. [5×5=25]**

2. Describe third normal form (3NF) with an example. [5]

**OR**

Describe the relational data model with example. [5]

3. Explain about coaxial cable and fiber optics cable. [5]
4. Differentiate between OOP or event-driven program and POP or structured programming language. [5]
5. Describe the waterfall software development model with pros and cons. [5]
6. What is Cloud computing? List and explain the services provided by cloud computing. [1+4]

**Group 'C'**

**Give long answer to the following questions. [2×8=16]**

7. List and explain 7 layers of OSI model. [8]
8. Define recursive function with its feature. WAP to find the factorial of a given number using recursive function. [2+6]

**OR**

WAP to ask roll no, name and marks in three subjects of 20 students and display only the pass students. [pass mark ≥ 40] [8]

**-Best of Luck-**



# Sukuna Secondary School

\* Sundarharaincha-10, Morang

## Second Terminal Examination 2080

Grade: XII

E.M.: 50

Subject: Com. English

Time: 2 hrs.

P.M.: 20

1. Read the text below and complete the tasks that follow.

Popular Indian comedian Raju Srivastava has died aged 58, his family has confirmed. Srivastava was being treated at a hospital in the capital, Delhi, following a heart attack on 10<sup>th</sup> August. The comedian had been taken to hospital and put on life support after experiencing chest pain and collapsing while working out at the gym. Last week, his family said that Srivastava was recovering slowly but remained on a ventilator. Srivastava joined the entertainment industry in the 1980s as an actor in Hindi films. He shot to fame in 2005 after participating in The Great Indian Laughter Challenge, a reality show for stand-up comedy. Srivastava was known as the common man's comedian.

He was born in 1963 in Kanpur city in the northern state of Uttar Pradesh. His father Ramesh Srivastava was a poet. As a child Raju Srivastava developed a talent for mimicry. His uncanny ability to mimic Bollywood star Amitabh Bachchan later became well known in the world of Hindi language comedy. Srivastava began doing comedy in the 1980s when state run Doordarshan TV was India's main source of entertainment. His first sketch Hasna Mana Hai (Laughter is Banned) appeared in the form of an audio cassette. In the late 1980s, Srivastava moved to the country's film capital Mumbai to be closer to Bollywood. He debuted as an actor in *Maine Pyaar Kiya* starring Salman Khan. He went on to appear in several popular films like *Baazigar* and *Toilet: Ek Prem Katha*. But comedy remained as mainstay.

A. Complete the following sentences below with correct information from the text above. (5X1=5)

a) Raju Srivastava had a heart attack on .....

b) Srivastava was born in the Indian state of .....



- c) ..... is India's state run television.
- d) An entertainer who performs in a humorous manner, especially by telling jokes is called .....
- e) The word 'recreation' is similar in meaning to .....

**B. Answer the following questions. (5X1=5)**

- a) How old was Raju Srivastava when he died?
- b) What is 'The Indian Laughter Challenge'?
- c) What was Raju Srivastava's first movie as an actor?
- d) Who was one of the popular Bollywood's famous actors whose mimicry Raju Srivastava had made?
- e) When did Raju Srivastava join the entertainment industry?

**2. Write short answers to the following questions. (Any five) (5X2=10)**

- a) How did Evan and Hooker know about the treasure? (The Treasure in the Forest)
- b) What makes the narrator nostalgic in the story 'My Old Home'?
- c) Present the claim of the Chinese nationalists about the human history. (Humility)
- d) Why, in your view, have these people 'lived with poverty's rage'? (The Awakening Age)
- e) Why did the old man try to bribe his grandchildren? (A Devoted Son)
- f) Do you agree with the author that wisdom is more important than knowledge? Why? Why not? Give reasons. (Knowledge and Wisdom)

**3. Give long answer. (Any one) (1X5=5)**

- a) Do you think money is the chief determinant of maintaining relationship between characters in the play 'Facing Death'? Why? Why not? Give reasons.
- b) As the chief of a local government unit of your country, what would you do to address the feelings of the women like Julia de Burgos? (I Was My Own Route)



4. Write a letter to your friend stating a memorable journey you have recently made. (4)
5. Many students in Nepal tend to choose to study abroad. To what extent does this trend benefit the students and the country? What are the drawbacks? Write an essay to explain your thoughts in about 250 words. (6)
6. Do as indicated in the brackets and rewrite the sentences. (10X1=10)
- Salina drives carefully. (Underline the adverb in the sentence)
  - You .....(might/ should/ must) think it's funny but I think it's pathetic. (Complete the sentence with the correct option)
  - Marie Curie is the woman. She discovered radium. (Join the sentences with a relative pronoun)
  - Either Mohan or his parents .....(has/ have) supported the winners. (Use appropriate verb in the blank)
  - Someone was dancing in the party, .....? (Add tag question)
  - His arguments are not based .....(in/at/on) truth. (Fill in the blank with the correct preposition)
  - A lot of people would lose the job if the factory .....(closed down/ closed in). (Use appropriate verb from the bracket)
  - The principal said, "You can phone from my office, Rita." (Change into indirect speech)
  - I like people laughing at me. (Change into passive)
  - A lot of people are worried about .....( to lose/ losing) jobs. (Choose the correct option)
7. Choose and copy the correct answer. (5X1=5)
- Which of the following words has a different initial sound?  
i) chairman ii) chemical iii) chess iv) check
  - What is the opposite word for 'corrupt'?  
i) kind ii) fresh iii) gentle iv) honest
  - What is the root word of the word 'imperfection'?  
i) im ii) perfection iii) tion iv) perfect



- d) Which of the words is odd on pronunciation?  
i) stopped ii) laughed iii) saved iv) booked
- e) The guests were formally attired. (Choose the correct meaning of the word 'attired' in the given sentence)  
i) extremely good ii) thin and easily torn  
iii) wearing formal clothing iv) clear

**The end**

Note Mandir



# सुकुना माध्यमिक विद्यालय

सुन्दरहरैचा-१०, मोरङ

दोस्रो आन्तरिक परीक्षा-२०८०

कक्षा : १२

विषय : अनिवार्य नेपाली

विषय कोड : ००२१

पूर्णाङ्क : ५०

समय : २ घन्टा

- १) तलको अनुच्छेदमा रेखाङ्कित शब्दहरूको उच्चारण र अक्षर संरचना देखाउनुहोस् : २  
हाम्रो विद्यालयमा अहिले दोस्रो आन्तरिक परीक्षा धमाधम सञ्चालन भइरहेको छ ।  
यसमा मैले पनि सक्रियतापूर्वक सहभागिता जनाइरहेको छु ।
- २) शुद्ध गरी पुनर्लेखन गर्नुहोस् : २  
कृषिक्षेत्रलाई प्राथमिकतामा नराखून्जेल भोकमरीको समस्या समाधान हुन सक्ने  
स्थिति छैन किनकि अबिकसित देशको अर्थतन्त्रमा यो क्षेत्र नै एक मात्र आधारस्तम्भ  
मानिन्छ ।
- ३) तलको अनुच्छेदबाट एउटा पारिभाषिक शब्द र एउटा अनुकरणात्मक शब्द पहिचान  
गरी त्यसलाई प्रयोग गरेर एक एकओटा वाक्य बनाउनुहोस् : २  
कार्यालयको बेरुजु रकम बढेपछि ऊ मानसिक अन्तर्द्वन्द्वमा फस्यो । त्यसपछि  
कार्यक्षेत्रबाट जुरुक्क उठेर सुटुक्क घरतिर लाग्यो ।
- ४) तलको अनुच्छेदबाट एउटा उखान र एउटा टुक्का पहिचान गरी एक एकओटा  
वाक्य बनाउनुहोस् : २  
विदेशमा कति दुख गरेर छोराका लागि बुबाले पठाइदिनुभएको ल्यापटप कामै  
नलाग्ने गरी साता दिनमै बिगारिहालेछ । बाँदरको हातमा नरिवल भनेभै भयो, के  
गर्ने माल पाएर चाल नपाएपछि यस्तै हुन्छ । यो कुरा सुनेर त मेरो पनि कन्सिरी  
तालिएर आयो ।
- ५) तलको अनुच्छेदमा रेखाङ्कन गरिएका शब्दको पदवर्ग पहिचान गरी लेख्नुहोस् : २  
उनीहरू आउँछन् भने त हामी पखौला नि, सँगसँगै कुराकानी गर्दै जान पाए पो  
रमाइलो हुन्छ ।
- ६) तल दिइएका शब्दहरूलाई शब्दकोशीय अनुक्रममा मिलाएर लेख्नुहोस् : २  
अररो, अगघोर, अँध्यारो, अंश, अस्पष्ट, अश्लील, अवकाश, अँगालो
- ७) तलको अनुच्छेदबाट दुईओटा उपसर्ग व्युत्पन्न र दुईओटा प्रत्यय व्युत्पन्न शब्द  
पहिचान गरी तिनको निर्माण प्रक्रिया देखाउनुहोस् : २  
हरेक नागरिकले अधिकारको खोजी गर्न कर्तव्य पनि पूरा गर्नुपर्छ । अधिकार खोज्नेले  
अरूको भलाइको पनि समुचित रूपमा अनुभव गर्नुपर्छ । कर्तव्यको पालना गर्दै  
सुमार्गमा पौरखी बनेर हिड्नेको नै जय हुन्छ ।



८) तलको अनुच्छेदका वाक्यहरूलाई सामान्य भूतकालमा परिवर्तन गर्नुहोस् : २

भाइ भात खान्छ । ऊ हतार हतार गृहकार्य सिध्याउँछ । ऊ खुसी भएर फुटबल खेल्छ । ऊ गोल हान्छ र बेसरी रमाउँछ ।

९) तलको अनुच्छेदका वाक्यहरूलाई सामान्यार्थकमा बदल्नुहोस् : २

तिमी आफ्नो क्षमतालाई सिर्जनशील काममा लगाऊ । तिमी जहिलेदेखि मैले भनेको कुरा मानौला र गरौला त्यसपछि सुखी पनि होउला ।

१०) तलका अनुच्छेदबाट ४ ओटा सरल वाक्य बनाउनुहोस् : २

तपाईंलाई सूर्योदयको दृश्य हेर्ने मन छ भने नगरकोट जानुहोस् । जुन मान्छेले नगरकोटको भ्रमण गर्छ उसले सूर्योदयको दृश्य हृत्तपत्त बिसर्देन । नगरकोटले पर्यटन व्यवसाय बढाएको छ र स्थानीय मानिसहरूका लागि आय आर्जनको बाटो पनि खुलाएको छ ।

११) तलको अनुच्छेद पढी चारओटा बुँदा टिपोट गर्नुहोस् र त्यसैका आधारमा एक

तृतीयांशमा सारांश लेख्नुहोस् :

२×२=४

हाम्रा वरिपरि रहेका सबै थरीका बोटबिरुवा, रुख लहरा, घाँसपात आदिलाई बुझाउने साझा नाउँ वनस्पति हो । नेपाल भौगोलिक विविधता भएको देश हुनाले यहाँ फरक फरक किसिमको हावापानी छ र सोहीअनुसार यहाँ विभिन्न किसिमका वनस्पति पाइन्छन् । नेपालका तराई, भावर, दुन र चुरे क्षेत्रमा उपोष्ण प्रदेशीय सदावहार जङ्गल छ । समुन्द्र सतहदेखि एक हजार दुई सय मिटरसम्मको उचाइमा रहेको जङ्गल नै उपोष्ण प्रदेशीय सदावहार जङ्गल हो । यो ज्यादै घना हुन्छ । एक हजार दुई सय मिटरभन्दा माथि करिब दुई हजार एक सय मिटरसम्मको उचाइमा उम्रने रुखबाट बनेको जङ्गललाई समशीतोष्ण पतझर जङ्गल भनिन्छ । यो पहाडी जङ्गल हो । यो त्यति बाक्लो हुँदैन । समुद्री सतहबाट तीन हजारदेखि चार हजार मिटर उँचो भूभागमा पाइने वनस्पतिलाई लेकाली वनस्पति भनिन्छ । हिमालको तल्लो भूभाग र केही होचो धरातलमा यस्ता वनस्पति पाइन्छन् । समुद्री सतहबाट चार हजार मिटरभन्दा उच्च भागमा पाइने वनस्पतिलाई हिमाली वनस्पति भनिन्छ । यस्ता वनस्पति रहने ठाउँको तापक्रम वर्षभरि नै शून्य डिग्री सेल्सियसभन्दा पनि न्यून हुन्छ ।

१२) तलको अनुच्छेद पढी सोधिएका प्रश्नहरूको उत्तर दिनुहोस् :

४

नेपालको मेचीदेखि महाकालीसम्मको भूभागमा अनेक उपत्यका पाइन्छन् । सुदूर पश्चिमको सुर्खेत उपत्यका, दाङ र देउखुरी उपत्यका, पोखरा उपत्यका, चितवन नवलपुर उपत्यका, काठमाडौँ उपत्यका, सिन्धुली माडी उपत्यका र अरू नदी किनारका अनेक उपत्यका छन् । भूगर्भ वेत्ताहरूको भनाइअनुसार यी उपत्यकाहरूमा पहिले पानी भरिएको थियो र करिब अढाई लाख वर्षपहिले यी



उपत्यकाबाट पानी बगेर बाहिर गयो । त्यसपछि, यहाँ जङ्गल भयो र जीवजन्तुहरू पनि आफ्नो आहाराको खोजीमा यसतर्फ अग्रसर भए । त्यसपछि, आदि मानव पनि आफ्नो जीवन निर्वाहका लागि यसतर्फ सिकार गर्न पस्यो । पहिले मानवको जीवन यायावरीय भए पनि पछि केही स्थिर हुँदै गयो । आजभन्दा दस हजार वर्ष पहिलेसम्म मानव पुरानै पाषाण युगको क्रममा थियो । तर इसापूर्व सात हजारदेखि पाँच हजार वर्षतिर आएर मानवले आफ्नो जीवन नव पाषाण युगमा पुऱ्यायो । यस समयमा मानवले कृषिकर्म अपनाउन थालिसकेको थियो ।

**प्रश्नहरू :**

- क) नेपालका उपत्यकाहरूमा कति वर्षपहिले जङ्गलको विकास भएको थियो ?
- ख) आदि मानव यी उपत्यकामा पस्नुअघि यहाँ कस्तो वातावरण थियो ?
- ग) आदि मानवले किन यायावरीय जीवन विताउनु पऱ्यो ?
- घ) 'भूगर्भ वेत्ता' र 'पाषाण युग' को अर्थ लेख्नुहोस् ।

**१३) कुनै एक प्रश्नको उत्तर दिनुहोस् :**

४

- क) मानौ तपाईं 'विराट युथ क्लब' मोरङको अध्यक्ष हुनुहुन्छ । तपाईंको क्लबमा **कार्यालय सहायक** पदमा २ जना कर्मचारीको आवश्यकता छ । यसका लागि पदपूर्तिसम्बन्धी विज्ञापनको नमुना लेख्नुहोस् ।
- ख) नवआगन्तुक विद्यार्थीहरूका लागि विद्यालयले भर्खरै सम्पन्न गरेको 'स्वागत कार्यक्रम-२०८०' को विषयलाई समेटी एउटा छोटो प्रतिवेदन तयार पार्नुहोस् ।

**१४) तलको कथांश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् :**

२×२=४

कालोनिलो आकाशमा उत्तरतिर ध्रुवतारा त्यसको दाहिनेतिर साततारा र देब्रतिर पाँच ताराका उज्याला तारामण्डलले तिनलाई मोहित तुल्यायो । पूर्वदेखि पश्चिमतिर केही दक्षिणतिर ढल्किएको आकाशगङ्गा दमयन्तीका दृष्टिमा सङ्गीतमय हुन थाल्यो । आकाश र पृथ्वी यस्ता सुन्दर छन् । तिनका बिच आफू एकली विरहिणी अवस्थामा अनुभव गरेर दमयन्ती कोमल मधुर स्वरमा वियोग र पीडाको गीत गाउन थालिन् । कति बेरसम्म तिनले गीत गाइन्, तिनले आफैं थाह पाइनन् । आकाशमा बिस्तारै बिस्तारै उभिएर आउँदै पातला बादलले त्यो सुन्दर आकाशलाई दमयन्तीका हृदयमा धूमिल तुल्याउँदै लग्यो ।

**प्रश्नहरू :**

- क) माथिको अनुच्छेदमा कस्तो परिवेशको चित्रण गरिएको छ ?
- ख) आकाश र दमयन्तीको हृदयका बिच के समानता छ ?



१५) तल दिइएको जीवनी अंश पढी सोधिएका प्रश्नको उत्तर दिनुहोस् :

४

हकिडले पृथ्वीमा आइपर्ने सम्भावित विपत्तिबाट बच्न मानव समुदायलाई बारम्बार सचेत गराउने गर्थे । उनले परमाणुयुद्ध, विश्वव्यापी तापक्रम वृद्धि, प्रकृति विरुद्धका मानवीय गतिविधिका कारण पृथ्वीमा मानव जीवन खतरामा रहेको बताएका छन् । त्यसैले यसतर्फ समयमै सचेत हुन आग्रह गरेका छन् । यस्तै उनले मानिसलाई कृत्रिम बुद्धिमत्तापूर्ण रोबोटको निर्माणमा सचेत हुनुपर्ने बताएका छन् । कृत्रिम बुद्धिमत्तापूर्ण रोबोट मानिसको दिमागका उपज हुन् तर यिनीहरूको स्मरण र विश्लेषणात्मक सामर्थ्य मानिसको भन्दा धेरै हुँदै गइरहेको छ । मानिसले गर्न सक्ने सबै काम यी यन्त्रहरू सजिलै गर्न सक्छन् । यसैले उनी कृत्रिम बुद्धिमत्ताले मानिसलाई नभई मानिसले कृत्रिम बुद्धिमत्तालाई नियन्त्रण गर्नुपर्ने मान्यता बारम्बार दोहोर्‍याइरहन्थे ।

प्रश्नहरू :

क) पृथ्वीमा मानिसको जीवन खतरामा पर्नुका कारण के के हुन् ?

ख) हकिडले मानिसलाई किन कृत्रिम बुद्धिमत्तापूर्ण रोबोटको निर्माणमा सचेत हुन आग्रह गरेका हुन् ?

१६) 'हामीलाई बोलाउँछन् हिमचुली' कवितामा कविले नेपालको हिमाली भेगको महत्त्व कसरी दर्शाएका छन् ? लेख्नुहोस् :

४

१७) 'एक चिहान' उपन्यासमा अष्टनारानलाई समाज सुधारक र क्रान्तिकारी चरित्रका रूपमा प्रस्तुत गरिएको छ; समीक्षात्मक उत्तर लेख्नुहोस् :

६

समाप्त