

COMPUTER SCIENCE – SAMPLE PAPER - III

CLASS – VII Maximum Marks: 40

I. Fill in the Blanks (5 Marks)

1. A _____ is a group of adjoining cells in an Excel sheet.
2. Text, numbers, and _____ can be entered into an Excel worksheet.
3. A _____ is a mark used to enter a digit as text in Excel (e.g., an apostrophe).
4. The _____ feature helps copy data by dragging the fill handle to other cells.
5. In Excel, press the _____ function key to repeat the most recent command or action.
6. Undo and Redo are commands commonly present on the _____ Toolbar.
7. Each cell in a spreadsheet is uniquely identified by its _____.
8. The Name Box represents the address of the _____ cell.
9. Excel columns are identified alphabetically from _____.
10. A _____ is a mathematical expression which may contain numeric values and cell addresses.

II. State True or False (5 Marks)

1. The virtual keyboard is operated by pressing physical, tactile keys.
2. The Binary number system works exceptionally well for electronic computer hardware.
3. Adding two binary numbers follows completely different logic principles than decimal addition.
4. The decimal number system is the most extensively used number system around the world.
5. Fishing (Phishing) is an e-mail scam that tricks people into revealing their personal information.
6. Any illegal activity involving the use of technology is considered a cybercrime.
7. In Excel 2010, a workbook file is saved with the default extension .xlsx.
8. A standard worksheet consists of exactly 1,20,580 columns.
9. The "Select All" button is located at the top-left corner of the grid, between the row and column headings.
10. In Excel, date elements can be separated using an exclamation mark.

III. Name the Following (8 Marks)

1. Which key moves the cell pointer to the next adjoining cell?
2. How many columns does an Excel 2010 worksheet have?
3. What is the shortcut key for the Redo command?
4. Which Excel feature helps in filling a range of cells with a series of data without manual typing?
5. On an Excel worksheet, where is the "Enter" button located?
6. How many "Select All" buttons are present on an individual Excel worksheet?
7. Which key helps in selecting non-adjacent rows and columns simultaneously?
8. Name the output device that displays output on a large flat surface such as a white wall or screen.

IV. Give the Full Forms (3 Marks)

- | | | | | | |
|--------|--------|--------|--------|----------|----|
| 1. LCD | 2. CRT | 3. LED | 4. VDU | 5. HTTPS | 6. |
| OS | | | | | |

V. Subjective Questions (14 Marks)

1. What do you mean by a digital footprint? Explain how an active footprint is different from a passive footprint.
2. How is binary arithmetic different from decimal arithmetic? Explain.
3. Differentiate between the octal and hexadecimal number systems.
4. What is the significant role of binary numbers in computers?
5. Write down the steps required to convert a decimal number into a binary number.
6. What do you mean by ports? Write the names of any three types of ports.
7. What is a virtual keyboard and how is it different from a physical keyboard?

VI. Numerical Problems (5 Marks)

1. Convert 151 into the binary number system.
2. Convert 101101 into the decimal number system.
3. Convert (1304)₁₀ into the octal number system.
4. Convert (4AB)₁₆ into the decimal number system.
5. Multiply the binary numbers: 101 x 100.

Sample paper C Class 7th geography

Silver Grove School

HALF-YEARLY EXAMINATION (2026-27)

CLASS- 7

SUBJECT: GEOGRAPHY

TIME: 2 Hrs.

M.M. 50

Instruction:- Read all questions attentively

It's compulsory to attempt all questions.

Do not write irrelevant answers only what you can.

A. Choose the correct option

(3)

1. The Great Barrier Reef is off the coast of.
(a) Queensland (b) New South Wales
(c) Western Australia (d) Northern Territory
2. Ozone layer is present in the _____.
(a) Stratosphere (b) Exosphere
(c) Troposphere (d) Mesosphere
3. Mercury or Aneroid Barometer is used to measure:
(a) atmospheric pressure (b) wind direction
(c) atmospheric temperature (d) moisture
4. A weather instrument which is placed on the top of a building.
(a) Wind vane (b) Rain gauge
(c) Hygrometer (d) Thermometer
5. The deepest depression in Africa is
(a) Nassar (b) Congo Basin
(c) The Great Rift Valley. (d) Lake Chad
6. In the troposphere the temperature of air decreases with an increase in height at the rate of 1 degree Celsius for every.
(a) 160m (b) 166m
(c) 170m (d) 175m

B. Fill up the blanks.

(4)

1. A _____ map shows natural and man-made features of an area.

- 2.The blanket of air surrounding the Earth is called the _____.
- 3.The increase in Earth's temperature due to trapped heat is known as the _____ effect.
- 4.Temperature, humidity, and rainfall are important _____ of weather.
- 5.A _____ is used to measure rainfall.
- 6.The lines joining places of equal height on a map are called _____ lines.
- 7.Carbon dioxide is an important _____ gas.
- 8.Daily information about temperature, wind, and rainfall is called _____ weather.

C. Write whether the following statements are True or False.

(3)

1. An anemometer measures wind speed. _____
 - 2.Clouds are formed by condensation of water vapor. _____
 - 3.A barometer measures temperature. _____
- Elements of weather include temperature and humidity. _____
- 4.Conventional symbols are used in topographical maps. _____
 - 5.Greenhouse effect cools the Earth completely. _____
 - 6.Greenhouse effect cools the Earth completely. _____.

D. Answer the questions in brief 50-60 words.

(2x5=10)

- 1.Explain the importance of the ozone layer in protecting life on Earth .
- 2.Describe how a thermometer and rain gauge are used in recording weather .
- 3.What is air pressure? Explain its effect on wind movement .
- 4.Explain the role of the atmosphere in maintaining the Earth's temperature .
5. Why do meteoroids burn up in the mesosphere?

E. Answer any four questions in detail. Word limit (60 to 90)

(4 x 3=12)

1. What is precipitation ? What are the different types of precipitation?
2. Defines the different structure of the atmosphere .
3. What type of climate is best suited for sheep rearing?
4. Describe the impact of global warming and mention some ways by which it can be reduced.
5. What are "mixed" sheep stations.
6. Write difference between Weather and Climate

F. Define the terms (2)

Global warming

Greenhouse gases

G. On the given outline map of Newzealand, mark and label the following:

(0.5x6=3)

Bern, Zurich, Geneva, lugano, lucene,Lausanne

H. Picture study.

(1*3=3)



Observe the picture answer the following questions

1. What are the different layers of the atmosphere? Name them in order from the Earth's surface upward.
- 2.Which layer of the atmosphere contains the ozone layer, and why is it important?
- 3.Why is the troposphere considered the most important layer of the atmosphere?

Project work.

(5)

Copy correction

(5)

SAMPLE PAPER - C class 7th history

CLASS- 7

SUBJECT: History/Civics

TIME: 2:30 Hrs.

M.M. 50

INSTRUCTIONS :

*Read the question paper carefully

*Marks are given against each question .

SECTION -1(COMPULSORY)

Question(1) Tick the correct answer .

(5)

(A) To whom did rich people complain against Jesus_____

(1) Pontius pilate (2) Pompey the Great

(3) Marcus Aurelius (4) Diocletian

(B) Who was the last Great Roman emperor.

(1) Osman I (2) Salah-al-Din

(3) Romulus Augustus (4) Constantine

(C) Which of the following is not included in the 'Five pillars' of Islam_____

- (1) Salat (2) Haj
(3) Hijra (4) Shahada

(D) The Abbasids established their capital at_____

- (1) Mecca (2) Baghdad
(3) Khurasn (4) Damascus

(E) In the beginning of CE 712_____was attacked by the Arabs for the first time.

- (1) Punjab (2) Amritsar
(3) Afghanistan (4) Sindh

(F) Who was the first Turkish invader who invaded India from the North Western side_____?

- (1) Mahmud Ghazni (2) Babur
(3) Harun al-Rashid (4) Muhammad Ghori

(G) With the taimur invasion which dynasty came to an end____

- (1) Lodhi Dynasty (2) Sayyid dynasty
(3) Tughlaq dynasty (4) Khalji Dynasty

(H) Which one of the following periods is related to the Delhi sultanate_____

- (1) AD 1206 to 1290 (2) AD 1206 to 1526
(3) AD 1206 to 1326 (4) AD 1206 to 1287

(I) The accounts of the village were managed by :

- (1) Iq tadar (2) Muqaddam (3) Munsif (4) Patwari

(J) Right to equality is associated with Articles_____ of the Indian Constitution??

- (1) 14 to 18 (2) 15 to 18
(3) 12 to 15 (4) 10 to 15

Question 2) Fill in the blanks.....

(10)

- (1) Christianity was founded by _____.
- (2) Jesus began preaching at the age of _____.
- (3) _____ is celebrated as the day of Resurrection.
- (4) Galerius and Constantine ended persecution of Christians by the _____.
- (5) Constantine established a new capital at _____.
- (6) Prophet Mohammad was born at _____.
- (7) Prophet Mohammad was born in about CE _____.
- (8) Muslims worship only one God called _____.
- (9) Mohammad preached against _____ worship.
- (10) Prophet Mohammad's successors were known as _____.

Questions 3) Match the column (A) with column (B).

(5)

Column A.

Column B.

- | | |
|--------------------|--|
| 1. Medina. | a. Court of law |
| 2. Crusades. | b. Migration of Prophet Muhammad |
| 3. Balban. | c. Conflict between Christians and Muslims |
| 4. Diwan-i-Arz. | d. Strong ruler of Slave Dynasty |
| 5. Administration. | e. Military department |
| 6. President. | f. Head of the Indian Republic |

7. Fundamental Rights. g. Rights of citizens
8. Supreme Court. h. System of governing a state
9. Razia Sultan I. First woman ruler of Delhi
10. Turkish invasion j. Attacks by Turkish rulers

Questions (4) State whether the following statements are True or False .

(5)

1. Feudalism was an important system in medieval Europe.
2. The Bible is the holy book of Islam.
3. Prophet Muhammad was born in Mecca.
4. Mahmud of Ghazni invaded India many times.
5. Qutubuddin Aibak founded the Delhi Sultanate.
6. Hampi was the capital of the Vijayanagar Empire.
7. Jesus Christ founded Christianity.
8. Alauddin Khilji introduced market control reforms.
9. The Turkish invasions had no effect on Indian history.
10. Krishnadevaraya was a famous ruler of Vijayanagar.

SECTION- 2 (COMPULSORY)

Questions 5) (Case study based Question)

NOTE * Attempt any one .

Read the passage given below and answer the questions that follow .

(2)

During the medieval period, India faced several invasions by Turkish rulers from Central Asia. These invasions greatly changed the political condition of India. One of the early Turkish invaders was Mahmud of Ghazni, who attacked India many times to loot wealth

and treasures. Later, Muhammad Ghori invaded India with the aim of establishing his rule.

The most important event was the Second Battle of Tarain fought in 1192 between Muhammad Ghori and Prithviraj Chauhan. Muhammad Ghori defeated Prithviraj Chauhan and gained control over Delhi and nearby regions. After his victory, his generals expanded Turkish rule in India. This eventually led to the establishment of the Delhi Sultanate.

The Turkish rulers introduced new methods of administration, military organization, art, and architecture. Monuments like Qutub Minar were built during this period. The Turkish invasions had a deep impact on Indian history and marked the beginning of Muslim rule in North India.

Questions

1. Why did Mahmud of Ghazni invade India repeatedly?
2. Name the battle that led to the establishment of Turkish rule in India.
3. Who defeated Prithviraj Chauhan in 1192?

OR

The Delhi Sultanate was established in 1206 after the Turkish invasions in India. It was ruled by different dynasties such as the Slave Dynasty, Khalji Dynasty, Tughlaq Dynasty, Sayyid Dynasty, and Lodi Dynasty. The Sultans strengthened their administration, maintained large armies, and expanded their territories.

Iltutmish was one of the most important rulers of the Slave Dynasty. He organized the administration and introduced silver coins called "Tanka." Alauddin Khalji became famous for his market control policy and strong military system. During the Sultanate period, many beautiful buildings and monuments were constructed, including Qutub Minar.

The Delhi Sultanate played an important role in shaping medieval Indian history through its administration, culture, trade, and architecture.

Questions

1. In which year was the Delhi Sultanate established?
2. Name any two dynasties of the Delhi Sultanate.
3. Which ruler introduced the silver coin called "Tanka"?

Questions 6) Picture study (3)



This is a picture of a popular form of devotional music.

- (1) What is the name of this form of music?
- (2) Name the famous personality who created this
- (3) What is the theme of music?

Question 7) Draw the Timeline to show the rise of islam.

(2)

SECTION(3)

Question (8)

NOTE * Attempt any five questions. The first question is compulsory.

(5×2=10)

1. Describe the main teachings of Christianity and explain the importance of the Bible in Christian religion.
2. Write a detailed note on the rise and spread of Islam under Prophet Muhammad.
3. Explain the importance of Mecca and Medina in Islam.
4. Describe the invasions of Mahmud of Ghazni and their impact on India.

- 5.Explain the causes and results of the Second Battle of Tarain fought between Muhammad Ghori and Prithviraj Chauhan.
- 6.Write a detailed note on the establishment and expansion of the Delhi Sultanate.
- 7.Describe the achievements of Alauddin Khalji in administration and military reforms.
- 8.Explain the administrative system of the Delhi Sultanate.

Question 9) Map work.

(3)

On an outline map of India, locate and label the following:

- (i) Delhi
- (ii) Panipat
- (iii) Jaunpur
- (iv) Deogiri

Questions (10) Projects

(5)

Silver Rove School

CLASS: 7

SAMPLE PAPER – C

SUBJECT: PHYSICS

TIME: 2:00 Hrs.

M.M. 50

Instructions:

- 1. Do not write ambiguous answers.*
 - 2. Attempt the question paper in proper sequence and put the same alphabet and question number as given in the question sheet.*
 - 3. This paper consists of Sections A, B, C – all are compulsory. Section C is provided with internal choices; attempt only one.*
-

Section A

Question 1: Choose the correct option to answer the given questions.

[1×10 = 10]

- Which of the following is an example of transformation of energy?
(a) A book lying on a table
(b) A fan converting electrical energy to mechanical energy
(c) A stone at rest
(d) Ice at 0°C
- A concave mirror is used in:
(a) Rear-view mirrors
(b) Side mirrors
(c) Torch reflectors
(d) Kaleidoscopes
- Which of the following colours is NOT part of the visible spectrum?
(a) Indigo
(b) Violet
(c) Ultraviolet
(d) Orange
- A body moving with uniform velocity has:
(a) Zero kinetic energy
(b) Constant kinetic energy
(c) Increasing kinetic energy
(d) Decreasing kinetic energy
- Which of the following is an example of muscular energy?
(a) Burning coal
(b) A person pushing a cart
(c) A solar panel working
(d) A falling stone
- The energy stored in our food is:
(a) Chemical energy
(b) Heat energy
(c) Light energy
(d) Kinetic energy
- Which of the following objects will form the sharpest shadow?
(a) A frosted glass window
(b) A clear glass window
(c) An opaque wall
(d) A translucent sheet
- The SI unit of energy is:
(a) Watt
(b) Newton
(c) Joule
(d) Pascal
- The angle of incidence on a plane mirror is 30° . The angle between the incident ray and the reflected ray is:
(a) 30°
(b) 15°
(c) 60°
(d) 90°
- Which of the following is a characteristic of the image formed in a plane mirror?
(a) Real, inverted, magnified
(b) Virtual, erect, same size
(c) Real, erect, same size
(d) Virtual, inverted, diminished

Question 2: State whether the following statements are True or False.

[0.5×6 = 3]

- i) Reflection from a rough surface is called irregular or diffuse reflection.
- ii) The energy of a moving object is called potential energy.
- iii) Sunlight is a mixture of seven colours.
- iv) A plane mirror forms a real image of an object placed in front of it.
- v) The angle of incidence equals the angle of reflection in all types of reflection.
- vi) A hydroelectric power plant converts kinetic energy of water into electrical energy.

Question 3: Analysis-based questions.**[1×2 = 2]**

- i) Plane mirrors are used as dressing mirrors. Give reasons why plane mirrors are preferred over other types of mirrors for this purpose.
- ii) Why does a swimming pool appear shallower than it actually is?

OR

If you see lightning before you hear thunder, what does that tell you about the speeds of light and sound? Explain.

Section B

Question 4: Answer in brief.**[1×8 = 8]**

- i) What is meant by the normal at a point on a reflecting surface?
- ii) Why does your school blackboard appear black?
- iii) What is gravitational potential energy? Give one example.
- iv) What is a real image? How is it different from a virtual image?
- v) State two differences between regular and irregular reflection.
- vi) What are secondary colours? Name the three secondary colours.
- vii) What happens to the kinetic energy of a body when its velocity is doubled?
- viii) Mention any two uses of plane mirrors in daily life.

Question 5: Answer in detail.**[2×4 = 8]**

- i) What is lateral inversion? Explain with the help of an example. Draw a diagram to illustrate it.
- ii) Explain the terms: (a) Incident ray (b) Reflected ray (c) Normal (d) Angle of incidence (e) Angle of reflection
- iii) Can a body possess energy even when it is not in motion? State your answer with a suitable example.
- iv) Explain the energy transformations that take place in a hydroelectric power plant with a labelled diagram.

Question 6: Solve the following numericals.**[2×2 = 4]**

- i) A body of mass 5 kg is moving with a velocity of 4 m/s. Find its kinetic energy.

OR

Two toy aeroplanes A and B have masses 1 kg and 2 kg respectively and are moving with the same speed. Which of the two has greater kinetic energy? Show with calculation.

- ii) A ray of light falls on a plane mirror making an angle of 25° with the mirror surface. What is the angle of reflection?

Section C

Attempt any ONE of the following.

[5×1 = 5]

Q1) a) Draw a neat diagram representing the laws of reflection on a plane mirror. Label all parts and state both laws clearly.

OR

b) Describe the energy crisis faced by the world today. Suggest any three ways to conserve energy in daily life.

Q2) a) Explain with examples how various forms of energy are interconverted. Make a flow chart to show interconversion of energy.

OR

b) What is diffuse reflection? How is it responsible for the visibility of objects around us even when they are not light sources?

*** Internal Assessment: 10 Marks ***



SILVER GROVE SCHOOL

Set C
CLASS- 7
SUBJECT: Biology

Time: 2 Hr

M.M.:

50

Name:

Roll

No.: _____

1. Read all the questions attentively.
2. The paper has three sections.
3. The intended marks for each question are given in brackets [].
4. 10 marks for Project work is included in the total marks.

Section A

Q1) Choose the correct option to answer the given questions.

(5×6=3)

1. Vertebrates have

- a. hollow sac like body b. flat body c. backbone d. tentacles

2. the earthworm is a /an

- a. Porifera b. annelid c. mollusc d. protozoan
- 3. Which set is correct for photosynthesis?**
 a. carbon dioxide, sunlight ,oxygen, chlorophyll b. nitrogen, water, carbon dioxide chlorophyll c. carbon dioxide ,water ,sunlight, chlorophyll d. oxygen, nitrogen ,water ,chlorophyll
- 4. Stomata are pores present on the surface of leaves surrounded by**
 a. epidermal cells b. guard cells c. mesophyll cells
 d. none of these
- 5. Organs of locomotion in Arthropods are**
 a. pseudopodia b. parapodia c. jointed legs d. wings
- 6. Tentacles are present in**
 a. hydra b. tap worm c. starfish d. cockroach

Q2) Fill in the blanks with appropriate word:-

(1x5=5)

1. Trees with long needle shape leaves are found in_____
2. In ferns,the leaves bear_____on the under surface for bearing spores.
3. _____tissue forms covering of body.
4. Cork cells are_____and are found in_____dicot stems
5. Axons of several neurons are bundled together to form_____.

Q3) State whether these statements are true or false:-

(5x8=4)

1. All plant cells carry out photosynthesis.
2. **Chlorophyll is contained in chloroplasts.**
3. Roundworm and earthworm belong to the same group.
4. oxygen, during photosynthesis is released from carbon dioxide.
5. **optimum temperature for photosynthesis is 35°C**
6. Sclerenchyma cells form ground tissue in plants.
7. Skin is connected with the body surface by adipose tissue.
8. Phloem is formed of long, tubular cells that transport water.

Q4) Match the following Column A with that of Column B

(1x5=5)

- | Column A | Column B |
|------------------------------|---------------------|
| 1. Product of photosynthesis | A. storage |
| 2. Chlorophyll | B. source of oxygen |
| 3. Starch | C. glucose |
| 4. Water | D. closed at night |
| 5. Stomata | E. solar energy |

Q5) Choose the odd one out from the following.

(5x6=3)

1. Protein, starch, cellulose, glucose
2. starch, iodine, caustic soda
3. WBCs, RBCs, platelets, lymph
4. Epidermis, parenchyma, collenchyma, sclerenchyma
5. Apical meristem, intercalary meristem, lateral meristem
6. cells, tissues, organs, population

Section B

Q6) Complete the paragraph with correct words given in the Bracket

(5x6=3)

{ red bone marrow, locomotion, framework, bone fracture, Phosphorus, non elastic }
Bones are hard and (1)_____ tissues. The inorganic salts of calcium, magnesium and (2)_____ in the matrix of bone make it hard, strong and brittle. That is why the bone gets broken this is called (3)_____. Bones form supportive (4)_____, protect delicate internal organs like (brain, lungs and heart), and help in (5)_____. Red blood cells and white blood cells are formed in the (6)_____ of long bones.

Q7) Answer in One word

(1x2=2)

1. Microscopic openings of under surface of leaf.
2. Presence of starch in leaves is tested using iodine solution.

Q8) Answer in brief in 50-60 word .

(1x5=5)

1. Name the raw materials needed for photosynthesis.
2. What does 'photo' represent in photosynthesis
3. Into how many groups are non flowering plants divided ? Give examples also.
4. Name different levels of organisation below organism level.
5. Define monocotyledons with example
6. Draw the diagram of amoeba.
7. Write a short note on arthropods

Q9) Analysis based question

(1x2=2)

- (i)
- (ii)

Q10) Answer in Details

(2.5x2=5)

1. Why are green plants called autotrophs?

or

Draw the diagram of open and closed stomata.

2. Name the functional unit of nervous tissue. Give the functions of axon and dendrons.

or

Too much bright light and high temperature above 45°C slow down photosynthesis. Why

Q11) Label the diagram

(3)

leaf diagram

page

Q12) Project

(10)

CLASS VII • SCIENCE (CHEMISTRY)

Time Allowed: 2.5 Hours | Maximum Marks: 50 Marks (Theory: 40 | Project: 10)

Candidate Name: _____ Roll No.: _____ Section: _____

General Instructions:

1. Answers to this paper must be written on the answer sheet provided separately.
2. The time given at the head of this paper is the time allowed for writing the answers.
3. Section A (20 Marks) consists of objective-type compulsory questions.
4. Section B (20 Marks) consists of short and long descriptive questions.
5. Section C (10 Marks) contains the Project / Practical Assessment Work.
6. All rough work must be done on the same sheet and clearly adjacent to the question.

SECTION A — OBJECTIVE TYPE QUESTIONS [20 MARKS]

Question 1. Choose the correct answer from the given options: [4 × 1 = 4 Marks]

(a) The force of attraction between the molecules of the same substance is called:

- (i) Cohesive force (ii) Adhesive force (iii) Gravitational force (iv) Electrostatic force

(b) Which of the following represents a physical change?

- (i) Rusting of an iron nail (ii) Sublimation of camphor (iii) Curdling of milk (iv) Ripening of fruits

(c) The chemical formula of Rust (hydrated ferric oxide) is formulated as:

- (i) FeO (ii) Fe₃O₄ (iii) Fe₂O₃·xH₂O (iv) Fe(OH)₂

(d) Which of the following is a divalent negative radical (anion)?

- (i) Chloride ion (ii) Sulphate ion (iii) Phosphate ion (iv) Ammonium ion

Question 2. Assertion - Reason Type Questions: [3 × 1 = 3 Marks]

Directions: Read the statements marked Assertion (A) and Reason (R). Choose the correct alternative from the following:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
(b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
(c) Assertion (A) is true but Reason (R) is false.
(d) Assertion (A) is false but Reason (R) is true.

(i) Assertion (A): Gases expand significantly and occupy the entire available space of the container in which they are kept.

Reason (R): The intermolecular forces of attraction in gases are extremely weak and negligible, while kinetic energy is very high.

(ii) Assertion (A): Souring of milk into curd is classified as a physical change.

Reason (R): No new chemical substance is formed during the curdling of milk.

(iii) Assertion (A): Water (H₂O) is classified as a chemical compound, not a mixture.

Reason (R): In water, hydrogen and oxygen elements are chemically combined in a fixed ratio of 1 : 8 by mass.

Question 3. Fill in the blanks with appropriate scientific words: [4 × 1 = 4 Marks]

(a) The phenomenon of direct transition from the solid state to gaseous state without melting is known as _____.

(b) Rusting of iron requires the essential presence of both moisture (water) and _____.

(c) An atom as a whole is electrically _____ because the number of protons equals the number of electrons.

(d) The neutral subatomic particle present inside the atomic nucleus was discovered by James Chadwick and is called the _____.

Question 4. Match the statements in Column A with their correct matches in Column B: [3 × 1 = 3 Marks]

Column A	Column B	Answer
(i) Dissolving sodium chloride in water	(p) Greenish coating of basic copper carbonate	(i) -> _____
(ii) Galvanisation of iron sheets	(q) Temporary and reversible physical change	(ii) -> _____
(iii) Corrosion of copper vessels exposed to moist air	(r) Protective coating of zinc metal to prevent rusting	(iii) -> _____

Question 5. State whether the following statements are True or False. If false, rewrite the correct statement: [3 × 1 = 3 Marks]

- (a) Burning of an incense stick (agarbatti) is a physical change because smell spreads by diffusion.
- (b) The mass number (A) of an atom is equal to the sum of protons and neutrons in its nucleus.
- (c) In a mixture, the constituent elements lose their original individual properties.

Question 6. Give one word / scientific term for each of the following: [3 × 1 = 3 Marks]

- (a) The fixed circular pathways or energy levels around the nucleus in which electrons revolve.

- (b) A negatively charged ion formed when a neutral atom gains one or more electrons. _____
- (c) The temperature at which a liquid continuously changes into its vapour state rapidly throughout its bulk.

SECTION B — DESCRIPTIVE QUESTIONS [20 MARKS]

Question 7. Give scientific reasons for each of the following: [2 × 1 = 2 Marks]

- (a) Smell of hot sizzling food reaches several metres away, but to get smell from cold food we have to go close.
- (b) Iron articles are frequently painted, greased, or coated with zinc before use in humid climates.

Question 8. Give the chemical symbols for the following elements: [4 × 0.5 = 2 Marks]

- (a) Lead (Plumbum): _____
- (b) Copper (Cuprum): _____
- (c) Nitrogen: _____
- (d) Sodium (Natrium): _____

Question 9. Give the valency and nature (positive / negative) of the following radicals: [4 × 0.5 = 2 Marks]

- (a) Hydroxide radical (OH) : _____
- (b) Ammonium radical (NH₄) : _____
- (c) Phosphate radical (PO₄) : _____
- (d) Zinc ion (Zn) : _____

Question 10. Name the constituent elements present in the following chemical compounds: [2 × 1 = 2 Marks]

- (a) Calcium carbonate (Limestone / CaCO₃): _____
- (b) Ammonia (NH₃): _____

Question 11. Short Answer Type Questions (Answer in 2–3 sentences each): [3 × 2 = 6 Marks]

- (a) Tabulate two key differences between a Compound and a Mixture on the basis of composition and separation of components.
- (b) What is meant by Brownian motion? Explain briefly how it provides direct evidence for the particulate nature of matter.
- (c) Define Atomic Number (Z) and Mass Number (A). If an atom of Chlorine has 17 protons and 18 neutrons, find its atomic number and mass number.

Question 12. Long Answer Type Questions (Answer in detail): [2 × 3 = 6 Marks]

(a) Atomic Structure & Electronic Distribution:

(i) State Bohr-Bury scheme rules ($2n^2$ rule, maximum capacity of outermost shell) for the distribution of electrons in energy shells.

(ii) Write the electronic configuration and determine the valency of:

1. Aluminium (Atomic Number = 13)

2. Oxygen (Atomic Number = 8)

(b) Kinetic Molecular Theory & Changes of State:

(i) Distinguish clearly between Evaporation and Boiling (state any two differences).

(ii) Explain the process of Condensation and Freezing on the basis of kinetic energy and intermolecular attraction between molecules.

(iii) Why do gases exert uniform pressure on the walls of their containing vessel?

SECTION C — PROJECT WORK [10 MARKS]

Silver Grove school.

set c

Half yearly

Subject -Sanskrit

Class VII

Time : 02:30 hrs

M.M. 50

Name:

Roll No.

M.M. 50

सामान्य-निर्देशाः -

सर्वे प्रश्नाः अनिवार्याः सन्ति ।

•प्रश्नानाम् उत्तराणि संस्कृतभाषायाम् एव लेखनीयानि ।

•उत्तराणि पृथक् उत्तरपुस्तिकायां क्रमानुसारेण लेखनीयानि ।

•स्वच्छता स्पष्टता च स्यात् ।

श्लोकपूर्ति कुरुत ।

1. अधोलिखित श्लोकों को पूरा करें. 5

संगणकस्त्वं तव लासः॥

2. निम्नलिखित शब्दानि अर्थ लिखत 5

सदा, पवनम्, कुत्रचित्, पश्यन्ति, तरलम्, द्रव, आतपः

दूषितम्, प्रस्तरतुल्यः, पवनम्

3. पाठानुसारं रिक्तस्थानानि पूरयत ।

2.5

पाठ के अनुसार रिक्त स्थानों की पूर्ति कीजिए

(क).....नास्म्यहं किञ्चित्, तथापि ऽस्म्यहम्।

(ख) शोभितोऽस्मि दीर्घः पक्षैरलङ्कृतः।

(ग).....पिबामि खादामि पवनं सदा।

(घ) तिष्ठामि..... भूमौ न च कुत्रचित्।

(ड)क्वचित् ---सूक्ष्मं, मां ----सदा जनाः ।

अधोलिखितानां समानार्थकानां शब्दानां परस्परं मेलनं कुरुत ।

4पठ्धातु लृटलकार के रूप लिखिए ।

(5)

(पठ्धातु लृटलकार) रूप लिखत

5 पाठ के अनुसार उत्तर लिखिए ।

5

पाठानुसारम् उत्तरं लिखत

(क) पञ्चलोकनृत्यानां नामानि लिखत ? SI

(ख)भरतनाट्यं कस्य प्रदेशस्य नृत्यम् अस्ति?

(ग)कथं नृत्यस्य प्रसारः कदा अभवत् ?

(घ) मकरः कम् अभक्षयत् ?

(ङ) असत्यस्य कीदृशः परिणामः भवति ?

6 अधोलिखितानां विपरीतार्थकानां शब्दानां परस्परं मेलनं कुरुत।3

निम्नलिखित विलोम शब्दों का परस्पर मेल कीजिए।

अत्र। शनैः

2 श्वेत। नीचैः

3 उच्चैः। कृष्णः

५ तीव्रम्। तत्र

5 प्रशंसाम्। मूर्खः

6 विद्वान्। निन्दाम्

7 प्रहेलिका 2

(i) अहं कः ?

क्वचित् प्रस्तरतुल्योऽस्मि, क्वचिच्च तरलं पुनः।

क्वचित् वायुसमं सूक्ष्मं, मां पश्यन्ति सदा जनाः॥

II) अहं कः ?

तिष्ठति रविणा साकं गच्छति रविणा सह।

अन्धकारस्य यः शत्रुः कः सः सर्वप्रकाशकः ॥

8 अधोलिखितानां परस्परं मेलनं कुरुत। निम्नलिखित का परस्पर मेल कीजिए।

वने. अकृन्तत्

जालम्. वसति स्म

मूषकाय. अमुञ्चत्

दयया. अक्रुध्यत्

गर्जनम्. अस्मि

प्रसन्नः. आकर्ण्य

1 पादैः विना. पवनम्

2 मुखं विना. तिष्ठामि

3 शोभितोऽस्मि. अलङ्कृतः

५ दीर्घपक्षैः. शिखण्डेन

5 दूषितम्. गच्छामि

6 सुस्थिरो भूमौ. कथयामि

9. संस्कृतं अनुवादयतु"

(5)

संस्कृत में अनुवाद करें

1 सीता पढ़ती है।

2. तुम सब पढ़ती हो।

3. मैं नहीं पढ़ती हूँ।

4. वे दो पढ़ती हैं।

5. तुम दोनों पढ़ती हो।

10. चित्राणि दृष्ट्वा लिखत।5

चित्र को देखकर लिखें।



11 परियोजना कार्यम् 5

Set c

Silver Grove School

HALF-YEARLY EXAMINATION (2026-27 CLASS-7

SUBJECT: HINDI-II

100

TIME: 2 Hrs.

निर्देश-

(1) प्रश्न पत्र दो भाग में विभाजित है सभी प्रश्न अनिवार्य हैं।

(ii) दोनों खंडों के प्रश्नों के उत्तर देना अनिवार्य है।

(iii) यथासंभव प्रत्येक खंड के उत्तर क्रमशः दीजिए।

खंड (क)

1 निम्न में से किसी एक विषय पर 150 शब्दों में संक्षिप्त लेख लिखें

पुस्तकालय

या

समाचार पत्र

2 गद्यांश को ध्यानपूर्वक तथा उसके नीचे लिखे प्रश्नों के उत्तर हिंदी में लिखिए यथासंभव आपके अपने शब्दों में होने चाहिए

एक पुरानी कथा कहता है। एक था मछुवा, एक थी मछली। दोनों किसी झाड़ के नीचे एक टूटी-फूटी झोपड़ी में अपना जीवन व्यतीत कर रहे थे। मछुवा दिन भर मछलियां पकड़ता, मछली दिन भर दूसरा काम करती तब कहीं रा में वे लोग खाने के लिए कुछ पाते। ग्रीष्म हो या वर्षा, शरद हो या वसंत, उनके लिए वहीं एक काम था, वही एक चिंत। वह भविष्य की बात नहीं सोचते थे, क्योंकि वर्तमान में ही व्यस्त रहते थे। उन्हें ना आशा थी और ना कोई लालसा।

प्रश्न 1) व्यतीत और लालसा का अर्थ बतायें?

प्रश्न 2) पहली बार मछुवे ने मछली से क्या माँगा?

प्रश्न 3) मछुवा मछली को क्या खिलता था ?

प्रश्न 4) मछली कहाँ फँसी हुई थी?

3निम्नलिखित शब्दों के दो-दो पर्यायवाची शब्द लिखिए ?

बर्फ, मुस्कान, सरल, लज्जा, नाग

4निम्नलिखित शब्दों के विलोम शब्द लिखिए

अमर, आशा उत्कर्ष, कलयुग

अनेक शब्दों के लिए एक शब्द लिखें

जिसमें चेतन ना हो

जो नहीं हो सकता

व्यर्थ खर्च करने वाला

वर्षा का abhav

5दिए गए मुहावरों का अर्थ लिखकर वाक्य में प्रयोग करें

एक अनार सौ बीमार

एक टांग पर खड़ा रहना

6निम्नलिखित पत्रों में से कोई एक पत्र लिखें

छोटे भाई को पत्र –सदाचार के संबंध में जानकारी देते देने हेतु

या

फीस माफ करने के लिए प्रधानाचार्य को प्रार्थना पत्र लिखिए

7नीचे दिए गए चित्र को देखकर एक लेख अथवा कहानी अपने शब्दों में लिखें



8निम्नलिखित प्रश्नों के उत्तर लिखिए ।

1संज्ञा किसे कहते हैं उदाहरण सहित समझाइए ।

2लिंग कितने प्रकार के होते हैं प्रत्येक के दो दो उदाहरण दीजिए ।

3कारक के कितने भेद होते हैं चिन्ह सहित लिखिए ।

4सर्वनाम किसे कहते हैं उदाहरण लिखिए।

9निम्नलिखित लघु उत्तरीय प्रश्नों के उत्तर लिखिए ।

1अकबर ने किस उम्र में अपने पिता के दुश्मनों को प्राप्त कर दिया था

2महाभारत में अधिकांश वीर किसके पक्ष में थे।

3कभी सत्य बात की जगह किस से काम देने को कह रहा है

4वनरक्षक का क्या नाम था

5वनरक्षक ने किस प्रकार अपने कर्तव्यों का पालन किया

10निम्नलिखित दीर्घ उत्तरीय प्रश्नों के उत्तर लिखें

राजा ने वनरक्षक को क्या प्रलोभन दिया

राजा की तलवार खींचने पर वनरक्षक ने क्या कहा

प्रभु मीरा की किस प्रकार सहायता करते हैं?

राणा ने मीरा के लिए क्या-क्या भेजे?

SAMPLE PAPER

CLASS - 7

ENGLISH - II

Section-A

Multiple choice questions.

1. Ivan and Masha realised that money was ripping them apart:

- (a) Even before they checked the last two digits of the ticket.
- (b) Only after they checked the last two digits of the ticket.
- (c) After they spent the money.
- (d) After they argued with each other.

2. 'Sadly, this was not the case that afternoon.' What does this line mean?

- (a) The ranger had to come along.
- (b) The rifle was used in the end.
- (c) The writer was not told the truth.
- (d) The rifle turned out to be unsafe.

3. Pushing the limits means.....

- (a) Putting your shoulder against the wall to push
- (b) Forcing away the limitations that cause hindrance
- (c) Attempting to go a little further than is usually considered advisable.
- (d) Putting away all stress and worries.

4. Swimmers can boost their performance in swimming pool by.....

- (a) Regulating the oxygen level in the pool
- (b) Wearing special swimsuits
- (c) Taking care of their body temperature
- (d) Removing gutters at the side of the pools

5. Ivan did not check the final digits of the lottery ticket soon because _____.

- (a) he wanted to enjoy the moment
- (b) he was sure Masha would lose
- (c) he promised Masha
- (d) he was waiting for his friends

6. On account of his size ; who was known as 'the Pea'.

- (a) Swaminathan
- (b) Sankar
- (c) Samuel
- (d) Mani

7. The weavers weave in the chilly moonlight:

- (a) A bright garment
- (b) A marriage veil
- (c) A funeral shroud
- (d) A colourful cloth

8. The fishermen set sail at:

- (a) Dawn
- (b) Dusk
- (c) Noon
- (d) Midnight

9. Malala's first destination after leaving Swat was:

- (a) London
- (b) Birmingham
- (c) Islamabad

(d) Peshawar

10. The man in Muddlehead travelled from:

(a) Rajkot to Ahmedabad

(b) Kharkov to Kiev

(c) London to Svalbard

(d) Swat to England

Question 2.

Read the extract and answer the following question that follows.

1. (i) He rushed into the first cafe:

“A railway ticket please, One way.”

(a) In the cafe, what unusual request does the muddlehead make?

(b) What does the muddlehead ask for at the ticket office

OR

(ii) 'Is it Kharkov or is it Kiev? Tell me where I am', he cried.

a. Explain the context of these lines.

b. Where is the speaker actually?

c. What other names of place are alluded to in this poem?

2. (i) However, Bolt performed under very different conditions.

a. What are the 'different conditions' mentioned here?

b. Were these conditions advantageous to Bolt or not?

OR

(ii) Film footage of Owens sprinting was analysed to find out how fast he would have run on a modern track.

- (a) What was the result of the analysis?
- (b) Complete in your own words: The comparison mentioned above indicates that new records in athletics are not.....

SECTION - B

Question 3-

Write the meaning and frame sentences of the word given below.

- (a) petrified
- (b) furious
- (c) ripping
- (d) hatred
- (e) noble
- (f) obstacles

Question 4-

State whether the following statements are true or false.

1. The narrator had a desire to see the Arctic seal.
2. When there was laughter on Malala's face- there was distress on her mother's face.
3. Tapeys are short stories like fables.
4. The United Nations declared 10th November as Malala Day.
5. Malala's father was her greatest supporter.

Question 5-

Fill in the blanks given below with appropriate words-

1. Malala's father looked _____.
2. The weavers are weaving _____ of a queen.
3. Sankar learnt all the problems and their solution in advance by his _____.

4. The fourth friend, Samuel was known as _____.

5. At the 2008 Olympics, _____ world records were broken in _____ water cube.

Question- 6

Answer the following question. (ANY SIX)

- What does the final paragraph on her visit to the botanical gardens, reveal about Malala?
- Where did Ivan and Masha live?
- What are some examples of the muddlehead's clothing mishaps?
- What made the author say that the motto of the Olympics is being constantly fulfilled?
- What did the man ask at the ticket office?
- What does the poet say about the fisherman's eyes?
- What does the story tell of Ivan as a husband?

Question 7-

Answer the following questions.

(ANY THREE)

- A. How did the Ivan and Masha react after checking the final two digits of the lottery ticket number?
- B. Do you think Swami was Picky in choosing his friends? Give reason.
- C. At the start of the article, the writer described her experience as both 'amazing' and 'terrifying.' Describe the events that prompted the writer to describe her holidays in these words.
- D. What will continue to be the driving force of the sports industry?

Question 8-

Analysis and answer.

(A) Write down your assessment of Swaminathan as a student.

(B) How might the outcome have been different if the ranger had not been there or if he had made a different decision?

(C) Reflecting on the encounter with the polar bear, do you think the ranger did the right thing by shooting the bear with a tranquilliser shot?



Silver Grove School

HALF-YEARLY EXAMINATION (2026-27)

CLASS- 7

Set C

SUBJECT: ENGLISH - I

TIME: 2 Hrs.

M.M. 50

Instructions

- Read all the question attentively
- The intended marks for each questions are given in brackets.
- Your project of 5 marks is added to the total marks.

SECTION - A

Question 1. Write a composition (200 – 250) words of the following.

(10) (a) Study the picture given below. Write a story or description or an account of what it suggests to you. Your composition may be about the subject, the picture or you may take suggestions from it, however there must be a clear connection between the picture and your composition.



Ravi loved

cycling.

Every Sunday morning, he rode his bicycle around the park near his house.

One day, while cycling, he noticed an old man struggling to carry a heavy bag. Ravi quickly stopped and offered to help him. The old man thanked Ravi and told him that kindness is one of the greatest qualities a person can have.

A few days later, Ravi saw the same old man again in the park. This time, the old man gave Ravi a small plant as a gift. He asked Ravi to take care of it and water it every day. Ravi happily accepted the gift and planted it in his garden.

Months passed, and the small plant grew into a beautiful tree. Ravi felt proud whenever he looked at it. He realized that small acts of kindness can grow into something meaningful and beautiful over time.

Questions

- What did Ravi love doing?
- Whom did Ravi help in the park?
- What gift did the old man give Ravi?
- Where did Ravi plant the small plant?
- What lesson did Ravi learn in the end?

Question 2. Select any one of the following.

(5)

- a) Write a letter to your cousin inviting him or her to your birthday party.
- b) Write a letter to the Editor about the harmful effects of plastic pollution.

Question 3- Write an essay on life without Mobile phones (5)

Question 4 – Read the following passage carefully and answer the following question that follows. (5) Ravi loved cycling. Every Sunday morning, he rode his bicycle around the park near his house. One day, while cycling, he noticed an old man struggling to carry a heavy bag. Ravi quickly stopped and offered to help him.

The old man thanked Ravi and told him that kindness is one of the greatest qualities a person can have. A few days later, Ravi saw the same old man again in the park. This time, the old man gave Ravi a small plant as a gift. He asked Ravi to take care of it and water it every day. Ravi happily accepted the gift and planted it in his garden.

Months passed, and the small plant grew into a beautiful tree. Ravi felt proud whenever he looked at it. He realized that small acts of kindness can grow into something meaningful and beautiful over time.

Questions

- What did Ravi love doing?
- Whom did Ravi help in the park?
- What gift did the old man give Ravi?
- Where did Ravi plant the small plant?
- What lesson did Ravi learn in the end?

Question 5.(I) Choose the correct option (5)

1. _____ the book, Samantha returned it to the library.
 - a. Read
 - b. Having read
 - c. To read
 - d. Reading
2. _____ her mother, the little girl jumped and ran to hug her.
 - a. Seeing
 - b. Having see
 - c. Saw
 - d. To see
3. My neighbours are very _____ as they make too much noise!
 - a. annoy
 - b. annoyed
 - c. annoying
 - d. being annoyed
4. We fell asleep after _____ a heavy meal.
 - a. Eat
 - b. Eating
 - c. Having to
 - d. To eat
5. Did you hear the cat _____?
 - a. Crying
 - b. Cry
 - c. To cry
 - d. Having cried

(II). Complete the Sentences with the correct form of the verb given.

(4)

- A. "I stayed at a hotel when I was in London." "But you could.....(stay) with me!"
- B. Aditya fell asleep during the film. It must..... (Be) really boring!
- C. You shouldn't..... (Put) strawberries on the cake.
- D. Thanks for lending me your umbrella yesterday. I would.....(get) really wet without it.

(III) Change the nouns in bold into plural. Make necessary changes and rewrite the sentence. (2)

- 1. The **child** is playing in the garden.
- 2. The local **vendor** sold us **mango**.
- 3. We saw the **buffalo** chase the **woman**.
- 4. There is a lot of dust on the **table**.

(IV) Fill in the blanks with the past participle form of the given verb. (2)

- 1. The song was (sing) well by the school choir.
- 2.The new closet was..... (bring) into the house by the delivery men.
- 3. They have (eat) the entire pizza.
- 4.The dog has.....(dig) a big hole in the garden.

(V) Complete the second sentence so that it has a similar meaning to the first sentence, using the word given. Do not change the word given. You must use between two and five words, including the word given.

(2)

- 1. Eating isn't allowed during the performance. **MUST**
You..... during the performance.
- 2. It was wrong of you to shout at Ananya. **NOT**
You..... Shouted at Ananya.
- 3. It was impossible for us to find a good hotel in the area. **ABLE** We
..... a good hotel in the area.
- 4. Perhaps Ally left her phone on the bus. **COULD**
Ally..... her phone on the bus.

Question 6. I. Write the synonym for the following (1.5)

- A. Clever
- B. Generous C. Cheap

(ii) Write the antonym for the following word.

(1.5)

- a. Conceal
- b. Anxious
- c. Expensive

(iii) Write the meaning of the following idioms and use them in the sentence of your own.

(3)

- A. Hit the nail on the head
- B. Piece of cake



Silver Grove School

HALF-YEARLY EXAMINATION (2026-27)

CLASS- 7

SUBJECT: MATHEMATICS Set-3

TIME: 03:00 Hrs.

M.M. 100

Name: _____ Roll

No. _____

Instructions:

1. Read all the questions attentively.
2. It is compulsory to attempt all sections.
3. Marks for each section are given.
4. Show all steps clearly in your solutions.
5. Use appropriate formulae and identities where necessary.
6. Neat and clean presentation of answers will be appreciated.

SECTION-A

(Each question carries 1 mark)

Choose the correct answer from the option given below.

Q1. If the cost of a pen is rupees $16\frac{2}{3}$, then the cost of 60 pens will be

- a) Rs 960 b) Rs 480 c) Rs 500 d) Rs 1000

Q2. The additive inverse of -17

- a) 17 b) 18 c) -18 d) 18

Q3. If $A : B = 2 : 5$ and $B : C = 4 : 5$, then $C : A = ?$

- a) $5 : 2$ b) $2 : 1$ c) $15 : 8$ d) none of these

Q4. Vertically opposite angles

- a) Are complementary b) are equal
- c) are supplementary d) form a linear pair

- Q5.** What is the degree of expression $\sqrt{2}x^3 + 5x^4 + 5x$?
a) 0 b) not defined c) 4 d) none of these

SECTION-B

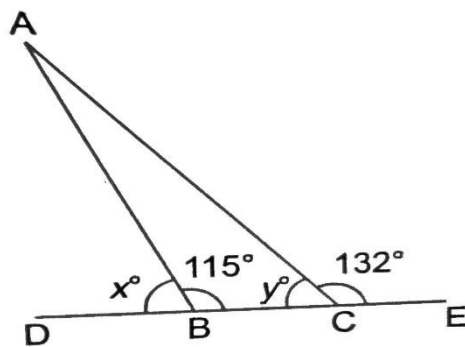
(Each question carries 1 mark)

- Q6.** The reciprocal of $\frac{2}{5}$ is
- Q7.** Write the given set in Roster form $C = \{x; x \text{ is a factor of } 32\}$
- Q8.** If $a : b :: b : c$, then a,b,c are said to be in proportion.
- Q9.** Write the example of Trinomial of degree 7
- Q10.** An angle whose measure is more than 180° but less than 360° is called a

SECTION-C

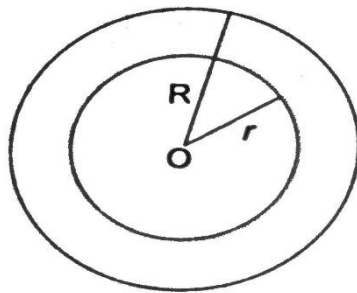
(Attempt all questions. Each question carries 3 marks)

- Q11.** A baby increases in weight from 5.58 kg to 6.16 kg. How much weight has the baby gained.
- Q12.** Simplify : $100 - 32.5 - 46.74 - 12.925$.
- Q13.** Divide Rs 16250 among A,B,C in the ratio 5:7:13.
- Q14.** The perimeter of a rectangle is $16x^3 - 6x^2 + 12x + 4$. If one of its sides is $8x^2 + 3x$ find the other side
- Q15.** In the given figure BC is produced on the both sides to points D and E respectively. Find the value of x and y.



- Q16.** Find the angle which is 5° more than four times its supplement.
- Q17.** It cost ₹5400 to fence a square field at ₹13.50 per metre. Find the length of the field and the area of the field
- Q18.** A circular running track has inner radius 126 m and outer radius 140 m find the

Area of the track.



Q19. Find the median of the first 10 even numbers.

Q20. Find the mean of first 10 odd numbers.

SECTION-D

(Attempt all questions. Each question carries 5 marks)

Q21. The length of a rectangular plot of land is $29\frac{3}{7}$ m. If its breadth is $12\frac{8}{11}$ m, find its area.

Q22. A man starts from his home and drive 169 km to the east and then 192 km to the West. How far is he from his home finally and in which direction ?

Q23. A bag contains ₹ 2, ₹ 5 and ₹ 10 coins in the ratio 5:7:8, whose total value is ₹ 1250. Find the number of ₹ 5 coins in the bag.

Q24. If 36 workers can build a wall in 12 days how many days will it take 16 workers to build the same wall.

Q25. Separate finite and infinite sets from the following :

- a) set of all the points on the circumference of the circle.
- b) set of leaves on a tree
- c) set of all counting numbers
- d) $\{x: x \text{ is a whole number greater than } 100 \text{ but less than } 1000\}$
- e) $\{0\}$

SECTION-E

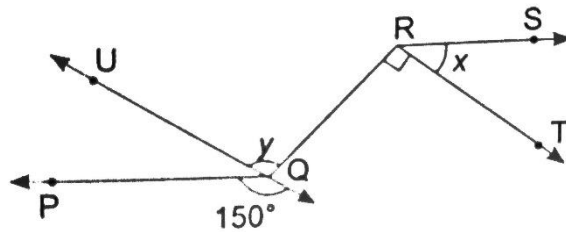
(Competency focused Questions)

Q26. Simplify the expression $-14m^2l - 17m^2 + 4n^2 - 15lm^2 - (-6m^2 - 10n^2 + 18l^2m^2) - 12m^2l^2$ and answer the question given below ?

- a) Write the simplified form.
- b) Classify the type of polynomial on the basis of number of terms.
- c) Write the degree of the simplified form.

- d) Find the sum of constant coefficient of each term.
- e) Write the number of variables in the simplified expression.

Q27. If $RS \parallel PQ$ and $RT \parallel UQ$, then the value of $8x - 2y$ is :



Q28. People of a village take good care of plants, trees and animals. they marked some rectangular land for their pets (cow and ox) and plants. Find the ratio of the areas kept for animals and plants together to the total area of the land.

