



Silver Grove School

SET-A
CLASS- 6
SUBJECT: Biology

Time: 02:30 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.

(5x10=5)

- (i). This is a digestive gland
(a) Tongue (b) Tooth (c) Stomach (d) Liver
- (ii). Gastric glands are found in
(a) Stomach (b) Liver (c) Large intestine (d) Buccal cavity
- (iii). Cell wall discovered by
(a) Robert Brown (b) Robert Hook (c) Leeuwenhoek (d) Charles Darwin
- (iv). The longest cells are
(a) Xylem vessels (b) Muscle cells (c) Hemp fibres (d) Nerve cells
- (v). The leaf like pink gland in human body is
(a) Pancreas (b) Lacteal (c) Villi (d) Liver
- (vi). Fat is broken down to fatty acids and glycerol by
(a) Bile salts (b) Trypsin (c) Amylase (d) Lipase
- (vii). In man digestion of starch starts in
(a) Buccal cavity (b) Oesophagus (c) Stomach (d) Duodenum
- (viii). Animal cell differs from the plant cell in the absence of
(a) Cell wall (b) Cell membrane (c) Vacuole (d) Nucleus
- (ix). The smallest cells of human body are
(a) Red blood cell (b) Nerve cells (c) White blood cells (d) Muscle cells
- (x). Which organelle is surrounded by two membranes?
(a) Centrosome (b) Lysosome (c) Ribosome (d) Nucleus

Q2) Fill in the blanks with appropriate word

(0.5x5=2.5)

1. Bile is stored in _____.
2. Carbohydrates and fats are _____ foods.
3. _____ is the control centre of the cell.
4. _____ is used to study structure of cell.
5. All life processes of the cell take place in _____

Q3) Match the following Column A with that of Column B**(0.5x10=5)**

Column A	Column B
(i) Acetabularia	(a) Nucleus
(ii) Vacuole	(b) Unicellular alga
(iii) Chromatin	(c) Cell turgidity
(iv) Pseudopodia	(d) Cellulose
(v) Cell wall	(e) Amoeba
(vi) Proteins	(f) fatty acids and glycerols
(vii) Lipids	(g) Simple sugar
(viii) Carbohydrates	(h) Amino acids
(IX) Salivary Glands	(i) Liver
(X) Bile juice	(j) Buccal Cavity

Q4) Choose the odd one out from the following.**(0.5x4=2)**

- a. Nucleoplasm, Cytoplasm, Chromatin, Nucleolus
- b. Nerve cells, Muscle cells, Guard cells, Blood cells
- c. Yeast, Bacteria, Fish, Amoeba
- d. Chloroplast, Chromoplast, Chromatin, Leucoplast

Q5) State whether the following statements are true or false:-**(5x6=3)**

- a. Leucoplast give colour to the fruits.
- b. The cheek cells are rectangular in shape.
- c. Digestion is completed in large intestine.
- d. Bile is produced by gall bladder.
- e. Tongue helps in mixing of saliva with food.
- f. Saliva changes starch into sugar.

Section B**Q6) Complete the paragraph with correct words given in the Bracket****(.5x6=3)****{Duodenum, Bile juice, Diaphragm, Abdominal cavity, Reddish brown, Liver}**

_____ is the largest gland in the body. It is _____ and weighs about 1.5 kg. It lies on the right side of the _____ in the concavity of _____. Liver produces _____ which is stored in gall bladder and is released in _____ through common bile duct when required.

Q7) Answer in One word**(1x4=4)**

- a. Arrangement of different types of teeth in buccal cavity.
- b. Enzymes present in the saliva for starch digestion.
- c. The network of chromatin material.
- d. Organelle that traps solar energy for photosynthesis.

Q8) Answer in brief in 50-60 words (Attempt any Three)

(2x3=6)

- Name the digestive enzymes present in pancreatic juice.
- Define nutrition.
- Draw the structure of tongue and show the location of different taste buds on it.
- Why does our body need new cells?
- Why is the cell called the basic unit of structure and function of living organism?
- Give functions of vacuole in the plant cell.

Section C

Q9) Answer in Details

(2.5x2=5)

1. What are plastids. Name different types of plastids and their functions.

or

How many types of teeth are there in the permanent set of teeth in man? Name different types and their function.

2. Why is the nucleus called the control centre of the cell.

or

Difference between healthy food and junk food.

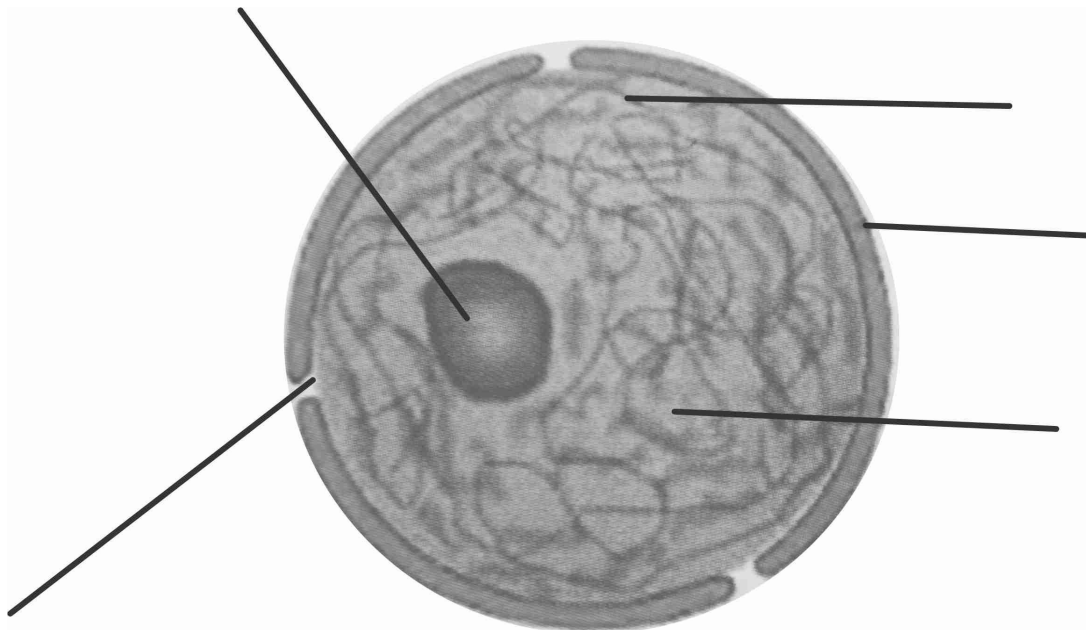
10) Analysis based question

(1x2=2)

- 1.If a person eats a meal without chewing it properly, how would it affect the rest of the digestive process?
- 2.What would happen if the mitochondria in a cell stopped working?

11) Label the diagram

(2.5)



12) Project

(10)



SILVER GROVE SCHOOL

Set- A

Class - 6

Subject : Chemistry

Time: 02:00Hr

M.M.: 50

Name: _____

Roll No.: _____

1.Instructions:- Do not write ambiguous answer's

2.Attempt the question paper in proper sequence and put same alphabet and question number as given in your question sheet.

3.This paper consists of sections A, B , C all are compulsory and section C is provided with internal choices .

Section A

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

(0.5x8=4)

1. A mixture of pease and guavas kept together in a basket can be separated by
a. sieving b. evaporation c. sedimentation d. hand picking
2. The liquid that passes through tiny holes in a filter paper is called the
a. solute b. sediment c. filtrate d. residue
3. Which of the following can be separated by filtration?
a. salt and sugar b. iron pieces and sand c. sand and stones d. sand and water
4. The branch of science that deals with the study of the behaviour and nature of matter,energy, measurement etc is called
a. biology b. physics c. chemistry d. none of these
5. Which of these is an element?
a.Water b.Ammonia c. common salt d. magnesium
6. Which of these contains citric acid?
a. Amla b. lemon c. orange d. all of these
7. Which of the fibres is not a synthetic fibre?
a.cotton b.nylon c.polyester d.rayon
8. Which of these is a metal?
a. sodium b. carbon c.hydrogen d.sulphur

Q2) Fill in the blanks with appropriate word.

(1x5=5)

1. Suspensions and emulsions are example of_____ mixtures.
2. The process of down of a solid at the bottom of a liquid is called_____.
- 3._____is the method used to separate common salt from sea water.
4. Everything around us is made of tiny particles called_____.
5. _____is a metal which is liquid at room temperature

Q3) Match the following Column A with that of Column B

(0.5x6=3)

- | Column A | Column B |
|-------------|----------------------|
| 1. Hydrogen | a.calcium carbonate |
| 2. Carbon | b. water |
| 3. Chlorine | c. ferric oxide |
| 4. Iron | d. hydrogen chloride |
| 5. Sodium | e. silver chloride |
| 6. Silver | f. sodium nitrate |

Q4) State whether the following statements are true or false

(1x5=5)

1. Decantation is the best method of separating tea granules from prepared tea.
2. Husk can be separated from seed grains by filtration.

3. Seeds and solid particles of pulp can be separated from fruit juice by decantation.
4. Iron can be separated from sugar by filtration.
5. Chalk powder can be separated from water by filtration.
6. A mixture is a pure substance.
7. Common salt is an element.
8. The symbol of nitrogen is N
9. Sugar is a compound made up of three elements i.e, carbon hydrogen and oxygen.
10. H_2 represents two molecules of hydrogen.

Q5) Encircle the odd one out :-

(1x3=3)

1. Aluminium,Copper,Nitrogen and Gold
2. Common salt,Water,Sugar and Iron
3. Hydrogen,Nitrogen,Bromine and chlorine

Section B

**Q6) Complete the paragraph with correct words given in the Bracket
(Threshing,Seed,Grains, Impurities,Chaff, Winnowing)**

(0.5x6=3)

_____ is a separation technique used to separate grains or seeds from their _____ by allowing the wind to blow away the lighter _____ (chaff) from heavier _____. The _____ grains obtained after _____ contain husk which needs to be removed .

Q7) Answer in One word:-

(1x3=3)

1. The liquid that dissolves a solid in it.
2. A method used to separate cream from milk.
3. A substance that dissolves in a liquid.

Q8) Answer in brief 50-60 words (Attempt any four)

(1x4=4)

1. What do you understand by an alloy?
2. Define pure substance.
3. Give two examples each of:-
 - a. monoatomic molecule
 - b. diatomic molecule
4. What is an atom made up of?
5. List the properties of a pure substance.
6. What do you understand by threshing?

Section C

Q9) Answer in Details

(2.5x2=5)

1. How can you separate a mixture of iron fillings and common salt? Explain
or
What are noble gases.Give two examples.
2. Difference between metals and nonmetals. Give two examples each of.
or

What do you understand by chemical formula of a compound

Q10) Analysis based question

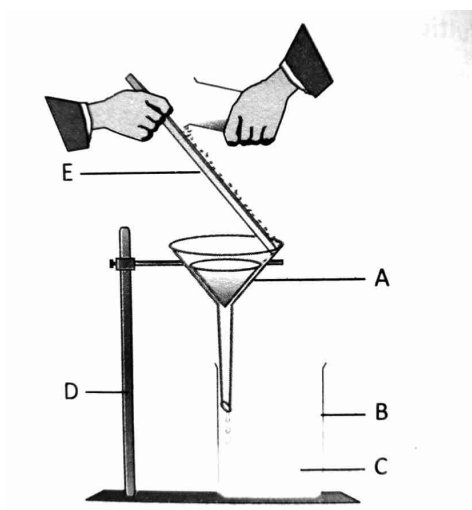
(1x2=2)

1. Suppose a mixture of iron filings and sand is given to you. You are not allowed to use your hands. What separation methods would you use and why?
2. Suppose two substances are mixed and the result is a new substance with totally different properties. What can you conclude about the type of change and substance formed?

Q11) diagram based questions

(1x3=3)

- a. Draw a labelled diagram of an apparatus used to separate oil from a mixture of oil and water.
- b. Label the parts A to E of the apparatus shown below.
- c. What is the apparatus used for?



Q12) Project

(10)



SILVER GROVE SCHOOL

SET -A
CLASS-6
SUBJECT: PHYSICS

Time: 02:00 Hr
Name: _____

M.M.: 50
Roll No.: _____

1. Instructions:- Do not write ambiguous answer's
2. Attempt the question paper in proper sequence and put same alphabet and question number as given in your question sheet.

3.This paper consists of sections A, B , C all are compulsory and section C is provided with internal choices .

Section A

Q1) Choose the correct option to answer the given questions. (0.5x8=4)

1. A force does not change
(a) mass (b) shape (c) direction of motion (d) state of motion
2. A speeding car stops on applying brakes due to the action of
(a) friction (b) force of gravity
(c) weight of a car (d) both (b) and (c)
3. Select the only wrong statement about the force of friction.
(a) Friction causes wear and tear in machinery parts
(b) Lubrication of machine part helps in minimising the friction.
(c) Force of friction increases on polishing the surfaces in contact.
(d) Force of friction comes into play when there is relative motion between two surfaces in contact.
4. Which of the following is not a unit of time?
(a) second (b) year (c) day (d) light year
5. Which of the following gives the most accurate measurement of time?
(a) water clock (b) atomic clock (c) pendulum clock (d) quartz clock
6. The one- tenth part of a unit is called
(a) hecto (b) deci (c) centi (d) mili
7. The amount of surface occupied by an object is called its
(a) mass (b) capacity (c) surface area (d) volume
8. Friction can be reduced by using
(a) lubricants (b) streamlined shape (c) ball bearings (d) all of them

Q2) Fill in the blanks with appropriate word (1x5=5)

1. Force of friction acts in a direction _____ to motion.
2. When we click through or hit a ball we are applying a _____ on it.
3. quantities that can be measured are called _____ quantities.
4. A _____ is used in a laboratory to measure the mass of an object.
5. Intermolecular space is _____ for solids.

Q3) Match the following Column A with that of Column B (1x4=4)

Column A

Column B

- | | |
|--|---------------------|
| 1. Friction when an object is at rest even on applying a force on it | a. Sliding friction |
| 2. A special shape given to objects so as to reduce friction in air or water | d. Static friction |
| 3. Materials used for reducing friction | c. Streamlined |
| 4. A force comes into play when one object slides on the surface of another object | d. Lubricant |

Q.4 State whether the following statements are true or false:- (0.5x4=2)

1. The SI unit of force is Newton.
2. Friction is a non contact force.
3. An hour is a standard international unit of time.
4. The symbol for 40 metres is 40 ms.

Q5) Choose the odd one out from the following.

(1x5=5)

1. water, alcohol, orange juice, an antiseptic tablet, cough syrup
2. kilogram, metre, second, Newton, kelvin
3. centimetre, millimetre, kilometre, square metre
4. kick, hit, push, sit, pull
5. frictional force, static friction, sliding friction, rolling friction, resultant force

Section B

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

(0.5x6=3)

{Walking, Sliding friction, kinetic friction, Surface, Sliding, frictional force}

Sliding friction is the _____ exerted by a surface on an object when it is actually _____ on the _____. Sliding friction is also known as _____. When we are walking or running on the ground, the force of _____ acts on us. We have to exert a force to overcome the sliding friction so as to continue _____ or running. If we stop exerting the force, our motion comes to a halt due to sliding friction.

Q7) Answer in One word

(1x2=2)

1. A force acting on an object by directly touching it.
2. The state matter of which can easily flow in all directions.

Q8) Answer in brief 50-60 words.

(1x5=5)

(Attempt any five)

1. State the important characteristics of gas.
2. What is a physical quantity?
3. Name any four fundamental quantities and their SI units.
4. What is the normal body temperature of a healthy person.
5. State any two examples of force as a pull.
6. State any two factors which directly affect the force of friction.
7. Name the three kinds of friction.

Q9) Solve the Numericals

(1x3=3)

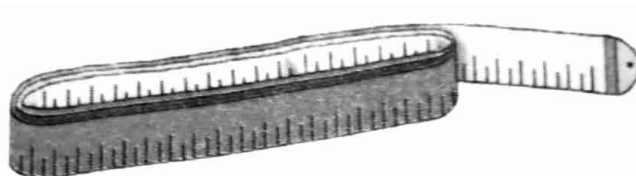
1. Mikha Singh completed 10 km race in 1.25 hours. Express the time in minutes as well as in seconds.
2. How many kilometres makes 600 m?
3. How many millimetres are there in 35 cm?

Section C

Q10) Case based Questions

(1x2=2)

Observe the figure



- a) Identify them and write their names.
b) state the uses of (ii) and (iii)

Q11) Answer in Details

(2.5x2=5)

1. What precautions should one follow while reading a measuring scale.

or

When does an object experience more friction while sliding on a wooden surface or sliding on a glass surface?

2. What precautions are followed while using a clinical thermometer?

or

What is the force of friction? Give its direction.

Q12.Project

(10)

Silver GRove School

(2026-27)

CLASS: 6

SAMPLE PAPER – A

SUBJECT: COMPUTER

TIME: 02:30 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 any THREE.

Note: For questions requiring a picture/diagram, draw or describe the figure as applicable.

Section A

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

[1×10 = 10]

1. Which tab in MS Word contains the option to insert a table?
(a) Home (b) Insert (c) Layout (d) View
2. What is the intersection of a row and a column in a table called?
(a) Cell (b) Row (c) Table (d) Column
3. Which of the following is used to merge two or more cells in MS Word?
(a) Split cells (b) Merge cells (c) Insert cells (d) Delete cells
4. What does the 'Start Mail Merge' option allow you to do?
(a) Format a document (b) Send emails directly (c) Create a template for merging
(d) Delete contacts
5. By default, in which folder is the data source file saved?
(a) My Data (b) Data Source (c) My Data Sources (d) None of these
6. Which view in PowerPoint shows all slides as thumbnails?
(a) Normal view (b) Slide show (c) Slide sorter view (d) Reading view
7. An animation effect that makes an element disappear from the slide is called:
(a) Entrance (b) Emphasis (c) Exit (d) Motion path
8. Which among the following is a transition category?
(a) Subtle (b) Static (c) Exit (d) Enter
9. Which key is pressed to run a slide show from the beginning?
(a) F1 (b) F4 (c) F5 (d) F7
10. Which MS Word feature allows sending personalised letters to many people at once?
(a) AutoCorrect (b) Mail Merge (c) Track Changes (d) Table Styles

Question 2: Assertion and Reason.

[1×3 = 3]

Choose the correct option (a/b/c/d) for each Assertion-Reason question:

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

i. Assertion: Anita wants to send invitations to her friends for her elder sister's marriage without writing individual letters to each person.

Reason: The 'Mail Merge' feature in Microsoft Word can help Anita automate the process of sending personalised invitations to multiple recipients.

ii. Assertion: The 'Slide Sorter' view in PowerPoint is useful for rearranging slides.

Reason: In Slide Sorter view, all slides are displayed as thumbnails which can be dragged to new positions.

iii. Assertion: Transition effects are applied to the whole slide, not to individual objects.

Reason: Animation effects are applied to individual objects on a slide such as text, images, or shapes.

Question 3: Analysis-based questions.

[1×2 = 2]

i) Rohan is creating a presentation in PowerPoint. He wants to add a button on every slide so that when a viewer clicks it, they move to the next slide. Which feature of PowerPoint can he use for this?

ii) Priya has created a table in MS Word but realises she needs to add one more column on the right side. Describe the steps she should follow to add a new column to her table.

Section B

Question 4: Answer in brief.

[1×10 = 10]

i) What is a table?

ii) What is a row in a table?

iii) What is the purpose of the 'Table Styles' option in MS Word?

iv) What is mail merge? Name any two documents it can be used to create.

v) Which key, upon pressing, moves the pointer to the next cell in a table?

vi) What is the difference between 'Enter data' and 'Edit data' in the context of a table?

vii) What is a slide transition? Give one example of a transition effect.

viii) Name two types of animation effects available in PowerPoint.

ix) What is a high-level language?

x) What is the use of the 'Preview Results' button in mail merge?

Section C

Attempt any THREE of the following.

[5×3 = 15]

Q1) a) List the different ways of creating a table in MS Word. Explain any one method in detail.

OR

b) Draw a well-labelled diagram of the MS Word window and label at least six important parts.

Q2) a) What is an action button in PowerPoint? Write the steps to insert an action button that takes the viewer to the next slide.

OR

b) Explain the steps to format a table in MS Word. Include how to change border style, shading, and column width.

Q3) a) What is a data source in mail merge? Write the steps to create a new address list as a data source in MS Word.

OR

b) Make a table showing the monthly timetable of any five subjects for Class 6 (at least 3 columns and 6 rows).

Q4) a) Write the steps to insert a video file into a PowerPoint presentation. Also mention how you can control when the video plays.

OR

b) Explain what slide show view is. Write the steps to start a slide show and how to navigate between slides.

Q5) a) Write the steps to add an audio file to a PowerPoint presentation. How can you set it to play automatically?

OR

b) What is sorting? Explain ascending and descending order with examples.

Q6) a) Explain the complete process of mail merge step by step, from creating the main document to completing the merge.

OR

b) Draw a well-labelled diagram of the PowerPoint window and label at least six important parts.

***** Internal Assessment: 10 Marks *****

Silver Grove school.

set A

Half yearly

Subject -Sanskrit

Class VI



Time : 02:30 hrs

M.M. 50

Name: _____

Roll No. _____

सामान्य-निर्देशाः -

सर्वे प्रश्नाः अनिवार्याः सन्ति ।

•प्रश्नानाम् उत्तराणि संस्कृतभाषायाम् एव लेखनीयानि ।

•उत्तराणि पृथक् उत्तरपुस्तिकायां क्रमानुसारं लेखनीयानि ।

•स्वच्छता स्पष्टता च स्यात् ।

1 निम्नलिखित शब्दों के अर्थ लिखें ।

निम्नलिखित शब्दानि अर्थ लिखित. 4

सः ,त्वम् ,अहम्, लिखति ,यूयम्, वयम्, आवाम्, ते

2. 3 श्लोकपूर्ति कुरुत । 5

अधोलिखित श्लोकों को पूरा करें

करागे _____ कर दर्शनं ।

3. उचित पद को उचित स्तम्भ में लिखिए

उचित पदम् उचिते स्तम्भे लिखत

(5)

अश्वः , अजा , फलम् , पुष्पम्, चटका , गजः ,मक्षिका ,पत्रम्, लूता , कच्छपः , कुक्कुरः ,चित्रम्, मृगः, लता ,जलम्

पुल्लिङ्ग स्त्रीलिङ्ग नपुंसकलिङ्ग

4. कोष्ठकस्थशब्दानाम् उचितरूपेण रिक्तस्थानानि पूरयत।

(6)

कोष्ठक स्थित उचित पद से रिक्त स्थानों की पूर्ति कीजिए।

- (क) सः----- पठति । (पुस्तक)
(ख) अहम्-----लिखामि।(पत्र)
(ग) त्वं-----पचसि।(भोजन)
(घ) अध्यापक :-----पाठ्यति(संस्कृत)
(ङ) जनकः-----करोति (भ्रमण)
(च) सः.....नमति ।(अग्रज)

5 धातुरूपाणी लिखत पठ् लट् लकार

पठ् धातु लट् लकार के रूप लिखिए)5

6 . शुद्धं वाक्यं लिखत ।

(5)

अशुद्धम्।

शुद्धम्

क) त्वं फलः खादसि ।

ख) सः भ्रमणः करोति ।

(ग) अहम् जनकः नमामि ।।

(घ) अहम् भोजनः पचामि ।

(ङ) रमेशः पत्रः लिखती ।

7. बहुवचने लिखत।

(5)

बहुवचन में लिखिए

(क) एतत् व्यजनम्।

(ख) एते पुस्तके।

(ग) एतत् दूरभाषयन्त्रम्।

(घ) एते संगणकयन्त्रे।

(ङ) एतत् उद्यानम्।

8संस्कृतं अनुवादयतु"

(5)

संस्कृत में अनुवाद करें

1 वह पढ़ता है/ वह पढ़ती है।

2. तुम पढ़ते/पढ़ती हो।

3. मैं पढ़ता/पढ़ती हूँ

4. वे दो पढ़ते/पढ़ती हैं।

5. तुम दोनों पढ़ते/पढ़ती हो।

9चित्राणि दृष्ट्वा रिक्तस्थानानि पूरयत

(8)



Set -A

Silver Grove School

HALF-YEARLY EXAMINATION (2026-27)

CLASS-VI

SUBJECT: HINDI

Time: 03:00 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)

प्रश्न (2) नीचे दिए गए चित्र को देखकर एक लेख अथवा कहानी अपने शब्दों में लिखें।

निर्देश: सभी प्रश्न अनिवार्य हैं-

प्रश्न (1)- निम्न में से किसी एक विषय पर 150 शब्दों में संक्षिप्त लेख लिखें।(5)

मेले का दृश्य

या

व्यायाम का महत्व

या

विजयदशमी

प्रश्न (3)-

अपने विद्यालय के प्रधानाचार्य को अवकाश के लिए प्रार्थना-पत्र ।

या

अपने मित्र को ग्रीष्मकालीन अवकाश अपने साथ बिताने का निमंत्रण पत्र।

प्रश्न (4)- नीचे दिए गए चित्र को देखकर एक लेख अथवा कहानी अपने शब्दों में लिखें।



प्रश्न (5)- गद्यांश को ध्यानपूर्वक पढ़िए तथा उसके नीचे लिखे प्रश्नों के उत्तर हिंदी में लिखिए। उत्तर यथासंभव आपके अपने शब्दों में होने चाहिए-

विद्यार्थियों का लक्ष्य विद्योपार्जन है। राजनीति उसके लक्ष्य की पूर्ति नहीं कर सकती। राजनीति का खेल है जो अनेक दांव-पेच खेल कर जीवन में सफलता प्राप्त कर लेते हैं। यह सरल एवं शुद्ध हृद का रोग नहीं है। राजनीति छात्रों के अध्ययन में बाधा ही नहीं डालती बल्कि वह उन्हें गुमराह भी कर स छात्रों को चाहिए कि सर्वप्रथम अपने आप को योग्य बनाए और उसके बाद ही वे राजनीतिक क्षेत्र में कदम रखें।

1) विद्यार्थी का लक्ष्य है-

2) राजनीति कैसे लोगों का खेल है ?

3) कौन सा कार्य छात्रों के अध्ययन में बाधा डालती है ?॥

4) छात्रों को सर्वप्रथम अपने को कैसे बनाना चाहिए?

प्रश्न (6)-निम्नलिखित शब्दों के दो-दो पर्यायवाची शब्द लिखिए।।

क किनारा. (ग) ईश्वर.

(ख) जल ((घ) घर

प्रश्न (7)-निम्नलिखित शब्दों के विलोम शब्द लिखिए ।।

(क) अनुकूल

(ख) आरोह

(ग) अनुराग

(घ) निरक्षर

प्रश्न (8)-दिए गए मुहावरों का अर्थ लिखकर वाक्य में प्रयोग करें ।।

(क) आग बबूला हो जाना

(ख) आ बैल मुझे मार

ग) कान लगाकर सुनना

घ) अक्ल ठिकाने आना

प्रश्न (9) निम्नलिखित प्रश्नों के उत्तर लिखिए।।

(क) शब्द किसे कहते हैं शब्द और पद में अंतर बताइए?

(ख) रचना की दृष्टि से शब्द के कितने भेद हैं प्रत्येक के दो दो उदाहरण लिखिए ?

(ग) संज्ञा किसे कहते हैं उदाहरण देकर बताइए?

(घ) संज्ञा के कितने भेद हैं प्रत्येक के दो-दो उदाहरण दीजिए।

प्रश्न (10) - रिक्त स्थानों की पूर्ति उचित सबसे कीजिए:

(क) निश्चित अर्थ को प्रकट करने वाले को शब्द-----कहते हैं।

(ख) जो शब्द परंपरा से चले आ रहे हैं और जिनके सार्थक टुकड़े नहीं किए जा सकते हैं।-----कहलाते

(ग) वे रूढ़ शब्द जो दो या अधिक शब्दों के मेल से बने हो परंतु विशेष अर्थ को प्रकट करते हो-----कहलाते हैं।

(घ) जिनमें लिंग वचन आदि के कारण विकार या परिवर्तन हो जाता है वे-----शब्द कहलाते हैं।।

प्रश्न (11) - निम्नलिखित कथनों में से सही (v) पर तथा गलतके सामने (x) चिन्ह लगाइए :

(क) व्यक्तिवाचक संज्ञा से किसी भाव व्यवस्था का पता चलता है ()

(ख) भाव वाचक संज्ञा का बहुवचन रूप जातिवाचक हो जाता है ()

(ग) जातिवाचक संज्ञा शब्दों से किसी विशेष व्यक्ति स्थान या पदार्थ का बोध होता है। ()

(घ) जातिवाचक संज्ञा शब्द विशेष जाति का बोध कराते हैं ()

प्रश्न 12) निम्नलिखित शब्दों में से मूल शब्द और उपसर्ग अलग अलग करके लिखिए-

1) अत्याचार

3) अभिनय

2) दुर्घटना

5) अवगुण

4) पराजय

खड़. ख

13 निम्नलिखित शब्दों के अर्थ स्पष्ट कीजिए -

उज्ज्वल, खिलौना, कुतूहल, मुख्यकृति

पद को ध्यानपूर्वक पढ़ें और पूछे गए प्रश्न उत्तर दें।

कबहुँ ससि मागत आरि करें कबहुँ प्रतिबिंब निहारि डरें।

कबहुँ करताल बजाइकै नाचत मातु सबै मन मोद भरें॥

कबहुँ रिसिआइ कहैं हठिकै पुनि लेत सोई जेहि लागि अरैं।

अवधैसके बालक चारि सदा तुलसी-मन-मंदिर में बिहरें ॥

प्रश्न

1. "बाललीला" कविता के कवि कौन हैं?

2. माता कौशल्या किसे देखकर प्रसन्न होती हैं?

3. भगवान राम के कौन-कौन से रूप का वर्णन किया गया है?

4. कविता में लोगों के मन... क्या स्थिति बताई

14 निम्नलिखित लघु उत्तरीय प्रश्नों के उत्तर लिखें

1 पाठ में किसके बाल लीला का वर्णन किया गया है?

2 चपल कहां चमकते हैं?

3 दर्जी की झोपड़ी कैसी थी?

4 मूसा के मुर्गा ले आने पर क्या हुआ?

5 तोते की गर्दन में लोहे की सीट किसने चुप हुई?

6 जंगली तोते ने किसके रंग को मुर्दा कहा?

7 रवि से उज्ज्वल कौन होगी?

8 पल भर की माया क्या है?

9 बालक ने कभी क्या सिखाया?

8 मछली कहां फंसी हुई थी?

15 निम्नलिखित दीर्घ उत्तरीय प्रश्नों के उत्तर दीजिए

काशी को और किस-किस नाम से पुकारते हैं?

अंत में छुआ मछली कहां रहने लगे?

शिशु ने मां से क्या पूछा?

जंगली तोते ने किसको छुड़ाया?

बिल्ली पालने का उपाय किसने बताया?

Class 6

Geography

Set A

MM. 50

Q1.Choose the correct answer from the option given below. (4)

1. Which is the example of Residual mountains?

- a. Vesuvius
- b. Vosges
- c. Aravali
- d. Alps

2. An elevated level expanse of land is:

- a. Mountain
- b. Plateau
- c. Plain
- d. River

3. These are formed as a result of depositional work of running water at the river mouth:

- a. Plains
- b. Deltas
- c. Valleys
- d. Isthmus

4. The Deccan Plateau has rich deposits of this soil?

- a. Black soil

- b. Red soil
- c. Alluvial soil
- d. All of these

Q2–State whether the following statement are True or False:-(5)

1. Old mountains are very high with steep slopes and pointed peaks.
2. A plain which is formed by the depositional work of wind is known as a Loess Plain.
3. Block mountains are known as mountains of circum-denudation or relict mountains.
4. Black soil is very fertile and considered good for the cultivation of crops like rice.
5. Human activities have brought about degradation of land.

Q3–Who am I?(4)

1. I am a land mass surrounded by water on all sides.
2. I am a narrow stretch of water between two land masses.
3. I am a remnant highland of an old mountain range.
4. I am a table-like highland.

Q4–fill in the blanks with appropriate words.(4)

1. The ratio between map distance and ground distance is called_____
2. The direction to the left of the north line is_____
3. A topographical map is an example of a_____ map.
4. A map which shows relief and human features is a_____ map.
5. To find out the direction of a place, we use _____points.
6. The_____ symbols given in a map. explains the signs and symbols given in a map
7. The person who makes a map is called a_____
8. A map with a smaller scale is able to represent a_____ area.

Q4- Match column (A) with Colomn (B)(5)

Column(A)

1-Continent:

2-Ocean:

3-Fold mountains:

4-Island:

5-Isthmus:

Column (B)

a..A large land mass separated from other land masses.

b–A large body of water.

c–Highlands formed by the raising of horizontal layers on the Earth's surface compressional forces.

d–A land mass surrounded by water.

e–A narrow neck of land connecting two large land masses.

Q5–Answer the following question in brief.(12)

1. What is the lithosphere?
2. How are landforms formed?
3. How is a volcanic mountain formed? Name one volcano.
4. Name the 'island continent'. Where is it located?
5. Mention two functions of mountains.
6. How are plains useful?

Q6– Draw a neat labelled diagram to show each of the following:-(3)

1. The formation of fold mountains
2. The formation of block mountains
3. A plateau

Q7–Map Work (3)

On an outline map of the world, mark the following:

- (i) Mountains-Alps, Andes, Rockies,
- (ii) Plateaus- Deccan ,Tibetan,Bolivia.
- (ii) Plains– Howa g Ho,Great central plains of USA

Q8–Project (10)

Class 6

Set (A)

History

Half yearly

Mm 50

Q1 Choose the Correct answer from the Option given below. (10)

1. Read the two statements given below about the Egyptian Civilisation. Select the option that shows the correct relationship between Assertion (A) and Reason (R).

Assertion (A): Egypt is located in the southwestern part of Africa.

Reason (R): Without the river Amazon, Egypt would have been a desert.

- (a) (R) contradicts (A)
- (b) (R) is the reason for (A)
- (c) (A) is true but (R) is false
- (d) (A) and (R) are independent of each other.

2. Identify the facts about Egyptian Script.

P: White paper was used for writing

Q: Deciphered by John Marshall

R: Picture writing known as hieroglyphic

S: It had 500 signs

- (a) P and Q

(b) R and S

(c) P and S

(d) Q and S

3. Meena is preparing a project on Egyptian Civilisation. Which of the following would be MOST WHOLLY be part of her project?

(a) The Great Pyramid

(c) The Hieroglyphic Script

(b) The Sphinx

(d) All of these

4. Which of the following aspects is being depicted by the above mentioned picture

(a) Egyptian Priest

(b) Egyptian King

(c) Egyptian God

(d) Founder of Egyptian Civilisation

5. Consider the statements given below and choose the correct answer

Statement I: The Egyptian society was patriarchal

Statement II: Women were given freedom and respect and enjoyed many rights

(a) Statement (I) is correct and statement (II) is incorrect

(b) Statement (I) is incorrect and statement (II) is correct

(c) Both statements (I) and (II) are incorrect

(d) Both statements (I) and (II) are correct

6. Which among the following statements is incorrect?

(a) The Sphinx is a fine example of Egyptian sculpture

(b) Pyramids were the tombs of Pharaohs

(c) Egyptians worshipped gods and goddesses connected with nature

(d) The staple diet of the Egyptians was rice and millet

7. Rashi is preparing speech on achievements of Egyptians. Which of the following achievements she must mention in her speech?

(a) They were aware about decimals and fractions

- (b) They provided detailed description of blood circulation system
- (c) The Solar calendar has been one of the greatest achievement of the Egyptians.
- (d) All the above

8. Who among the following was considered to be God's representative on Earth and his statues were installed in the temples?

- (b) Pharaoh
- (c) Chief Noble
- (a) Cleopatra
- (d) Chief Priest

9. The rich merchants, traders, skilled artisans, jewellers, etc. constitute the

- (a) middle class of Egyptian society
- (b) high class of Egyptian society
- (d) lower-middle class of Egyptian society
- (c) low class of Egyptian society

10. The Old kingdom of Egypt: 3000-2000 BCE:: The New Kingdom of Egypt:

- (a) 1000 BCE - 500 BCE
- (b) 15700 BCE - 1069 BCE
- (c) 800 BCE- 200 BCE
- (d) 1550 BCE - 776 BCE

Q2-State Whether, the following statement are true or false. 5

1. The Egyptians perfected the art of embalming.
2. The Egyptians developed a lunar calendar.
3. The famous pyramids have been found at Cairo.
4. The star Sirius appeared in Egypt whenever there were floods.
5. Women were ill-treated in Egyptian civilisation.

Q3-Fill in the blanks with appropriate words 5

1. The Egyptian kings were called_____

2. _____ is the process of preserving dead bodies.
3. The old kingdom is known as the period of the _____ &
4. The staple diet of the Egyptians was _____
5. _____ was the chief occupation of the Egyptians.

Q4 -Match Column (9) with Column (b)

Match the following: 4

- | | |
|------------------|-----------------------------|
| 1. Pyramids | (a) Script of Egyptians |
| 2. Sphinx | (b) Tombs of Pharaohs |
| 3. Papyrus | (c) A mythological creature |
| 4. Hieroglyphics | (d) Paper |

Q5-Case Study Based questions 3

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

The Solar Calendar has been one of the greatest achievements of the Egyptians. They needed an accurate knowledge of seasons, rains and floods for their farming. They observed that the star Sirius appeared on the horizon when the floods reached Cairo and this happened after every 365 days. It inspired them to make the first known calendar of 365 days in a year of 12 months, each of 30 days, five more days were added to the calendar for celebration of religious festivals.

1. Which among the following calendars is considered as one of the greatest achievements of the Egyptians?

- (a) Local Calendar
- (b) Lunar Calendar
- (c) National Calendar
- (d) Solar Calendar

2. Where is the capital of Egypt?

- (c) Khartoum
- (a) Durban

(b) Cairo

(d) Tripoli

3. Egyptian added five days of their calendars to celebrate the

(a) harvest festivals

(b) social festivals

(c) religious festivals

(d) national festivals

Q6-Assertion Reason type Question 2

In the questions given below, there are two statements marked as Assertion (A) and Reason(R).Read the statements and choose the correct option.

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion(A).

(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

(c) Assertion (A) is true but Reason (R) is false.

(d) Assertion (A) is false but Reason (R) is true.

1. Assertion (A): The Solar Calendar was one of the greatest achievement of Egyptian Civilization. Reason (R): It told about accurate knowledge of seasons, rains and floods for their farming.

2. Assertion (A): The Egyptians developed a kind of picture writing known as hieroglyphic.

Reason (R): They wrote on the bark strips of a plant called papyrus.

Q 7- Identify the Picture, 2

(a) Who built it and when?

(b) What things did it contain?

Q8-Answer the following question: 10

1. What was the position of the king in the Egyptian society?

2. Mention the contribution of ancient Egyptians in the field of astronomy.

3. Why is the Egypt called the Gift of the Nile?

4. Explain the important features of Egyptian art and architecture.

5. What do you mean by the term 'Hieroglyphic'? Explain its features also.

Q9- Project 10

Sample Question Paper

English – I | Class 6 | Set A

Time: 2 Hours Maximum Marks: 50

Section A

Q1. Write a composition (200–250 words) on any one of the following:

(a) Save Trees, Save Earth

OR

(b) Picture Composition



Q2. Write a letter on any one of the following:

(a) Write a letter to the Principal requesting permission to celebrate English Language Day in school.

OR

(b) Write a letter to your cousin inviting him/her to your birthday party.

Q3. Write an essay on any one of the following:

(a) The Importance of Education

OR

(b) My Favourite Book

Q4. Read the unseen passage carefully and answer the questions that follow.

Newspapers are our good friends. Life without Newspapers is a waste. Newspapers bring us news and views from all corners of the world. Any incident or occurrence of importance that

takes place as reported by the newspapers. The word "NEWS" is interpreted as North, East,

West and South. It means that the newspaper provides us with information and news regarding various subjects from all directions. Newspapers also give us articles on all kinds of topics such as political, social, economic monetary, business, commerce, sports, education, health etc. Newspapers publish advertisements that attract the attention of the customers.

They also contain book reviews of literary, historical and other books by the scholars. Newspapers are of different types. Some newspapers are published daily. They are called "Dailies". We must cultivate the habit of reading newspapers to know what is happening around the globe. The one who reads newspapers and interprets editorial pages can only be master in current affairs and general knowledge. Reading newspapers helps you to find out what news is and how it is written. The one who dreams of being a journalist should not spare a day without reading the newspaper. They should be aware about the editorial and be well versed with vocabulary. We will get to know news from all the countries if we read newspapers regularly. If we are reading the newspapers seriously, it will also help to shine in competitive examinations.

1. What kind of articles are published in newspapers?

- a) Educational and health related
- b) Political, social, sports and games related
- c) Economic monetary, business, commerce related
- d) All the above

2. What are the benefits of reading an editorial page?

- a) One can become a businessman
- b) One can become a poet
- c) One can get mastery in current affairs
- d) One can pass the elite exam

3. Newspapers publish advertisements attract:

- a) Attention of foreigners
- b) Attention of tourists

c) Attention of customers

d) Attention of air hostess

4. How do newspapers help the students?

a) He can get knowledge of current affairs

b) He can shine in competitive examinations

c) He can enhance his vocabulary

d) All the above

5. Who is a journalist?

a) Daily news reader

b) Press reporter

c) Book reviewer

d) Script editor

Q5. Choose the correct pronoun and fill in the blanks:

1. Can Mira sing as well as _____? (they/them)

2. Ram is as old as _____. (me/I)

3. We always like people _____ speak the truth. (who/whom)

4. Bring me the newspaper _____ is kept on the table. (which/whom)

5. The boy was alone. There was _____ to save him. (someone/nobody)

Q6. Choose the correct answer:

1. Did you tell / Were you telling Alex about your party?

2. While I did / was doing my homework, my brother came into the room.

3. Last summer, we went / were going to the beach nearly every day.

4. Dan put / was putting on his gloves and picked / was picking up his snowboard.

Q7. Write synonyms of the following words:

(a) Quadrant

(b) Urbane

(c) Jubilant

(d) Ligature

(e) Mandala

Q8. Write antonyms of the following words:

- (a) Abolish
- (b) Compulsory
- (c) Despair
- (d) Generous
- (e) Hostile

Q9. Write one word substitution for the following:

- (a) A thing no longer in use.
- (b) A person who never drinks alcohol.
- (c) One who does not believe in God.
- (d) One who always thinks positively.

Q10. Write the meaning of the following idioms and frame sentences:

- (a) A blessing in disguise
- (b) Beat around the bush
- (c) Burn the midnight oil
- (d) Call a spade a spade
- (e) Hit the nail on the head

Instructions

- Answer all questions.
- Write neatly and clearly.
- Read the questions carefully before answering.
- Maintain proper grammar and spelling.

ENGLISH – II SAMPLE PAPER
SET – A
CLASS – 6

Time: 3 Hours

Maximum Marks: 80

Section – A (Multiple Choice Questions)

1. What was written on the diary found by Wes?

- (a) Diary 2025
- (b) Diary 2015
- (c) My Secret Book
- (d) Old Memories

2. Why did Riana feel that learning in the past was special?

- (a) Students studied only online
- (b) Teachers were robots
- (c) Students learned together and played during breaks
- (d) There were no schools in the past

3. Why was Wes excited at the beginning of the story?

- (a) He found a new computer
- (b) He was opening an important looking box
- (c) He was going to school
- (d) He got a robot

4. Why was Hamid the happiest among the boys?

- (a) He had the most money
- (b) He was going to the city alone
- (c) He was excited about Eid celebrations
- (d) He brought many toys

5. Why was Ameena worried about Hamid?

- (a) He was sick
- (b) He might get lost in the crowd
- (c) He had no friends
- (d) He did not want to go to the fair

6. Why did the group walk around the cliffs?

- (a) To look for food
- (b) To find the best way to go up the plateau
- (c) To escape from snakes
- (d) To build a camp

Section – B (Extract Based Questions)

"The world is certainly very beautiful," cried a little squib. "Just look at those yellow tulips. They are so lovely."

Who said these words?

What was the squib admiring?

Find a word from the extract which means 'very pretty'.

"Let the fireworks begin," said the King. The Royal Pyrotechnist marched down to light the fireworks.

Who gave the order to begin the fireworks?

Who marched down to light the fireworks?

Find a word from the extract which means 'a person skilled in making fireworks'.

Section – C (Short Answer Questions)

1. Who made up the great Trinity?
2. What was shining in the dark?
3. Who gave a lecture on ancient Mathematics?
4. Who wrote Aryabhatiyam?
5. Which prize did Sir C.V. Raman receive?
6. Who made a camp and fire at night?
7. What terrible noise did they hear?
8. What was their next mission?

Section – D (Long Answer Questions)

1. Why were Wes and Riana at Grandpa's place?
2. Describe the Rocket in 'The Remarkable Rocket'.
3. How does the squirrel feel about its own size compared to the mountains?
4. Why does Hamid not join the other children for the play ride?
5. Why did the narrator say that they were prisoners in the Lost World? Explain.
6. What does the author mean by 'Oh my friends, why don't you in every field integrate and grow instead of differentiating?'

Section – E (Grammar)

1. Write the meanings of the following words and frame sentences with them:

- Performed

- Shatter
- Embracing
- Solution
- Horrible
- Integrated

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

1. Srinivasa Ramanujan was known for his contribution to Mathematics.
2. The Rocket was humble and polite to the other fireworks.
3. Children in the past learned together in schools.
4. The nightingale wanted to harm the glow-worm at first.

3. Match the Columns:

Column A

Aryabhata

Dr. Vikram Sarabhai

Brahmagupta

Dr. D.S. Kothari

Dr. Homi J. Bhabha

Bhaskaracharya

Column B

Kusumpura

ISRO

Brahmasphuta Siddhanta

DRDO

DAE

Siddhanta Shiromani

SILVER GROVE SCHOOL

Maheshpur, V.N.S

SET A

HALF YEARLY EXAMINATION

Class: VI (2026-2027)

Subject: Mathematics

Maximum Marks (M.M.): 80

Time Allowed: 3 Hours

Student Name / Roll No: _____

General Instructions:

- This question paper is divided into **Two Sections**: Section A (40 Marks) and Section B (40 Marks).

SECTION A

(Carries 40 Marks)

(1) Multiple Choice Questions

[10 × 1 = 10 Marks]

Q.1 What is the sum of $6x$ and $2y$? [1]

- (a) $8xy$ (b) $6x + 2y$
(c) $8(x + y)$ (d) $12xy$

Q.2 Simplify the expression: $6 \times a \times a \times 3 \times b \times b \times b \times 2 \times c \times c \times c \times c$ [1]

- (a) $36a^2b^3c$ (b) $11a^2b^3c$
(c) $36(a^2 + b^3 + c)$ (d) $36abc$

Q.3 If the cost of 14 pens is ₹378, find the cost of 8 such pens. [1]

- (a) ₹212 (b) ₹214
(c) ₹216 (d) ₹218

Q.4 The simplest form of the ratio 108 : 135 is: [1]

- (a) 3 : 5 (b) 4 : 5
(c) 27 : 25 (d) 23 : 27

Q.5 Write the algebraic expression for: "5 less than thrice x" [1]

- (a) $5 - 3x$ (b) $3x - 5$
(c) $3x + 5$ (d) $3x/5$

Q.6 Solve the equation for x: $5x + 8 = 4$ [1]

- (a) $-4/5$ (b) $12/5$
(c) $-12/5$ (d) $-15/12$

Q.7 A line segment has exactly how many endpoints? [1]

- (a) 1 (b) 2
(c) 0 (d) Infinite

Q.8 An angle whose measure is exactly 210° is called: [1]

(a) Obtuse angle

(b) Reflex angle

(c) Straight angle

(d) Complete angle

Q.9 The sides of a rectangle are in the ratio 8 : 7 and its perimeter is 90 cm. Its length is: [1]

(a) 24 cm

(b) 21 cm

(c) 32 cm

(d) 42 cm

Q.10 The area of a rectangle is 350 cm^2 and its breadth is 14 cm. Find its perimeter. [1]

(a) 78 cm

(b) 68 cm

(c) 72 cm

(d) 84 cm

(2) Fill in the Blanks

[10 × 1 = 10 Marks]

Q.11 In the algebraic term $-15xy^2$, the numerical coefficient factor present is _____. [1]

Q.12 The sum of a number and 6 is 15. The value of that number is _____. [1]

Q.13 If the linear operational equation fraction is given as $x/3 - 3 = 3$, then $x =$ _____. [1]

Q.14 In unitary variations, less is the total number of articles, the _____ will be their net value. [1]

Q.15 The total procurement cost varies _____ as the actual quantity of articles bought. [1]

Q.16 A line segment possesses a completely definite geometric _____. [1]

Q.17 Based on structural geometric vectors, a standard ray contains exactly _____ endpoint. [1]

Q.18 The exact structural angular degree measurement of a perfect straight angle is _____. [1]

Q.19 The exact degree value needed to constitute a complete full-turn angle is _____. [1]

Q.20 The total surface area of a rectangle is 120 cm^2 and its given length is 15 cm. Its breadth is _____ cm. [1]

(3) Type-II Question (Short Answer Type) [Attempt only 10 questions — 10 × 2 = 20 Marks]

Q.21 Subtract the algebraic expression $(a^2 - 2ab + b^2)$ from the expression $(a^2 + 2ab - b^2)$. [2]

Q.22 What algebraic expression must be added to $(3x^2 + 5x - 2)$ to get a final sum of $(3x + 1)$? [2]

Q.23 Divide an amount of ₹1320 among three students A, B, and C in the given continuous ratio of 2 : 3 : 7. [2]

Q.24 Divide an amount of ₹1050 between Mona and Kunal using the short-cut method in the ratio 4 : 3. [2]

- Q.25** Solve the linear algebraic expression equation $3x - 2 = 10$ and verify your solution step-by-side. [2]
- Q.26** Solve the basic linear equation $x - 6 = 2$ and perform a step-by-step verification to prove L.H.S = R.H.S. [2]
- Q.27** Find the total cost of fencing around a rectangular playground 56 m long and 34 m wide with steel wire at a uniform rate of ₹30 per metre. [2]
- Q.28** The total boundary perimeter of a rectangle is 120 cm and its given breadth is 24 cm. Calculate its exact length. [2]
- Q.29** Each side of a square field measures 85 m. Find the total distance covered by an athlete who runs completely around this boundary field five times. [2]
- Q.30** The total outer perimeter of a triangle is 72 cm. If two of its sides measure 17 cm and 23 cm respectively, find the length of its third side. [2]
- Q.31** Reduce the numerical ratio 56 : 98 to its lowest simplest fractional form by calculating and dividing both terms by their Highest Common Factor (H.C.F.). [2]

SECTION B

(Carries 40 Marks)

(1) Assertion and Reason Type Questions

[10 × 2 = 20 Marks]

Directions: Choose the correct option for the following items:

- (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) (A) is true but (R) is false.
- (d) (A) is false but (R) is true.

Q.32[2]

Assertion (A): A line segment is a customized structural path that has a fixed measurable length and contains exactly two distinct endpoints.

Reason (R): A geometric ray extends endlessly in one single direction, meaning it possesses only one singular starting endpoint.

Q.33[2]

Assertion (A): If the equation expression is $x - 8 = 12$, then the variable value satisfying this specific condition balance is $x = 20$.

Reason (R): Any numerical value added or shifted from one side of a balanced equation transpose changes its positive/negative polarity prefix.

Q.34[2]

Assertion (A): The simplest lowest structural form of the numeric ratio 24 : 36 is written as 2 : 3.

Reason (R): To reduce a ratio to its simplest form, we divide both its antecedent and consequent by their H.C.F.

Q.35[2]

Assertion (A): An angle measuring exactly 90 degrees is a right angle, while an angle measuring 180 degrees is called a straight angle.

Reason (R): A reflex angle always measures exactly more than 180 degrees but less than 360 degrees.

Q.36[2]

Assertion (A): If the length of a side of a square is doubled, then its boundary perimeter also becomes exactly doubled.

Reason (R): The formula to calculate the boundary perimeter of any regular square is $4 \times \text{side}$.

Q.37[2]

Assertion (A): The expression $5x + 3y$ is a binomial expression containing exactly two unlike algebraic operational terms.

Reason (R): Terms that have identical algebraic operational variable factors are classified strictly as like terms.

Q.38[2]

Assertion (A): If 4, x, 12, 15 are in a continuous true proportion, then the missing variable value of x is 5.

Reason (R): In any balanced proportion equation ratio, the product of means equals the product of extremes.

Q.39[2]

Assertion (A): A perfect complete full-turn angle around a centralized geometric point maps out exactly 360 degrees.

Reason (R): Two intersecting straight perpendicular lines meet together to create an angle measurement of 90 degrees.

Q.40[2]

Assertion (A): If the area of a square playground is 64 square metres, then its perimeter is 32 metres.

Reason (R): The surface area of a square is calculated using the standard formula $\text{side} \times \text{side}$.

Q.41[2]

Assertion (A): In the unitary operational variation method, to find the value of many articles when the value of one is known, we perform multiplication.

Reason (R): Unitary calculations always involve initial division to deduce the base price of a singular unit.

(2) Long Answer Type Questions

[Long Evaluation Block — 20 Marks]

Q.42 A rectangular orchard plot has a length measurement of 120 metres and a breadth of 75 metres. [5]

- (i) Calculate the total surface area of this orchard plot in square metres.
- (ii) Find the net expenditure required to level this ground at a standardized rate of ₹15 per square metre.

Q.43 The monthly incomes and expenditures of a professional family are evaluated in the ratio format of 8 : 5. If the family manages to save an exact amount of ₹12,000 every single month: [5]

- (i) Find their exact monthly income amount.
- (ii) Find their net monthly expenditure value.

Q.44 Solve the following complex multi-step linear variable equations step-by-step and show verification for each: (i) $4x - 7 = 2x + 9$ [5]

(ii) $3(x - 3) = 5(2x + 1)$

Q.45 A concrete running path is designed around a perfect square park whose individual side edge length [5] is 110 metres. If a runner completes exactly 6 continuous rounds along its outer boundaries every morning:

- (i) Find the total perimeter distance of one single round.
- (ii) Find the net distance covered by the runner in kilometres.