



**St. Mary's School, Dwarka**  
**Holiday Homework 2026**  
**Class: VIII**  
**Worksheet 4**  
**Subject: English**

**General Instructions:**

- 1) The work should be done neatly and systematically.
- 2) The given questions are to be done in the English notebook.
- 3) Attempt all questions.

**No. of questions - 9**

**M.M-25**

**Q1. Read the following passage.**

Have you ever wondered why certain individuals can effortlessly retain birthdays, telephone numbers, and song lyrics, whereas others find it difficult to recollect them? Memory is one of the most extraordinary cognitive functions of the human brain. It enables human beings to acquire knowledge, identify people, resolve problems, and accomplish routine activities. In the absence of memory, even elementary tasks such as fastening shoelaces or navigating familiar routes would become complicated.

Scientists assert that memory functions through three major processes: encoding information, storing it, and retrieving it whenever necessary. Every day, the human brain assimilates an immense amount of information through the senses. Nevertheless, not all information is retained permanently. The brain generally preserves only the details it perceives as meaningful or substantial.

Adequate sleep plays a pivotal role in consolidating memory. Students who obtain sufficient rest after studying frequently demonstrate better retention than those who remain awake throughout the night. During sleep, the brain organises and reinforces stored information. Chronic sleep deprivation can impair concentration and hinder the learning process.

Nutrition and physical activity also exert a considerable influence on memory. Nutrient-rich foods such as fruits, nuts, leafy vegetables, and dairy products contribute to efficient brain functioning. Physical exercise stimulates blood circulation and enhances the oxygen supply to the brain. Researchers believe that regular exercise can augment analytical abilities and improve mental focus.

Interestingly, emotions significantly affect memory as well. People often recollect joyful, traumatic, or humiliating experiences more vividly because intense emotions strengthen memory formation. This

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phenomenon explains why many adults can distinctly remember their first day at school or an unforgettable childhood occurrence.

In the contemporary digital era, numerous individuals rely extensively on smartphones and computers to retain information. Contact numbers, reminders, and important dates are frequently stored in electronic devices. Certain scientists fear that excessive dependence on technology may gradually deteriorate natural memory capacities.

Fortunately, memory can be cultivated and strengthened through practice. Reading extensively, solving complex puzzles, acquiring new languages, and engaging in concentration exercises can sharpen cognitive abilities. Educators often encourage students to revise lessons repeatedly because repetition facilitates long-term retention of information.

The human brain is frequently compared to a sophisticated computer; however, it remains far more intricate and astonishing. By nurturing both physical and mental well-being, individuals can enhance their memory and transform learning into a more effective and rewarding experience.

**Based on your understanding of the passage, answer the questions given below. (1x5=5)**

**i. What is one of the most important functions of memory according to the passage? (1)**

Memory is important because it helps people \_\_\_\_\_.

- a) forget unpleasant experiences quickly
- b) perform daily tasks and learn new things
- c) avoid sleeping for long hours
- d) depend completely on digital devices

**ii. How does proper sleep help improve memory? (1)**

- a) weakens the brain and reduces focus
- b) prevents the storage of information
- c) organises and strengthens memories
- d) decreases the brain's concentration level

**iii. Which statements about memory and lifestyle are correct according to the passage? (1)**

1. Physical exercise improves oxygen supply to the brain.
2. Strong emotions can strengthen memories.
3. Sleep deprivation improves learning ability.
4. Healthy food does not affect memory.

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- a) only 1 and 2 are correct
- b) only 2 and 3 are correct
- c) only 1 and 4 are correct
- d) only 3 and 4 are correct

**iv. Why are some scientists concerned about excessive dependence on technology? (1)**

- a) increases people's interest in reading books
- b) may gradually weaken natural memory skills
- c) improves concentration too much
- d) encourages people to exercise regularly

**v. Choose the word from the passage that means the same as 'to make something stronger or more effective'. (1)**

- a) deteriorate
- b) assimilate
- c) reinforce
- d) intricate

**Q2. You are Ishaan/Diya Malhotra, President of the Astronomy Club at Crescent Valley School, Lucknow. Draft a notice for students of classes IX–XII about a 'Stargazing Night Camp' on the school grounds, featuring telescope viewing, constellation hunts, and space quizzes. Put the notice in a box and include all necessary details. It should not exceed 50 words. (3)**

**Q3. Fill in the blanks with the appropriate option. (½ x 4=2)**

Hardly had the chief guest (i) \_\_\_\_\_ the conference hall when the participants, who (ii) \_\_\_\_\_ for nearly an hour, rose to welcome her. The organisers ensured that every document was placed in (iii) \_\_\_\_\_ proper file before the discussion began, but scarcely (iv) \_\_\_\_\_ the session started when the electricity failed.

- |               |                |                     |                 |
|---------------|----------------|---------------------|-----------------|
| i. a. entered | b. had entered | c. enters           | d. entering     |
| ii. a. waited | b. have waited | c. had been waiting | d. were waiting |
| iii. a. a     | b. an          | c. the              | d. X            |
| iv. a. had    | b. did         | c. was              | d. has          |

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**Q4. Fill in the blanks with the appropriate option.**

(½ x 4=2)

Neither the director nor the actors were prepared for the criticism that (i) \_\_\_\_\_ after the performance, although each of them believed the audience would appreciate (ii) \_\_\_\_\_ effort. The reviewer, along with several journalists, kept (iii) \_\_\_\_\_ questions regarding the controversial ending, and no one could deny that the final scene was far more dramatic than anyone (iv) \_\_\_\_\_ expected.

- |               |                 |             |              |
|---------------|-----------------|-------------|--------------|
| i. a. follows | b. had followed | c. followed | d. following |
| ii. a. his    | b. their        | c. theirs   | d. them      |
| iii. a. ask   | b. asked        | c. asking   | d. asks      |
| iv. a. has    | b. have         | c. had      | d. having    |

**Q5. What images does the poet use to present the calm and natural beauty of Innisfree in the poem, *The Lake Isle of Innisfree*?** (2)

**Q6. How does the author create humour in the lesson, *The Night the Ghost Got In*?** (2)

**Q7. Mention any major consequences that may arise if global warming is not checked.** (2)

**Q8. What made Manju feel upset in the lesson, *The Narayanpur Incident*? Explain briefly.** (3)

**Q9. Create a detailed drawing, painting, or collage on an A3-sized sheet illustrating the 'Lake Isle' described in the poem.** (4)

- **Include elements such as the lake, trees, birds, greenery, and the peaceful cottage setting to capture the beauty, tranquillity, and sense of solitude conveyed in the poem.**

**Also, write your favourite lines from the poem along with a 100-120 word reflection explaining why the poet wishes to go to Innisfree.**

Subject: Hindi

निर्देश — 1 दिए गए सभी प्रश्नों के उत्तर हिन्दी की उत्तर पुस्तिका में लिखिए।

2 सभी प्रश्नों के उत्तर पूर्ण वाक्य में लिखकर स्थानों को रेखांकित कीजिए।

3 कार्य स्वच्छ शुद्ध एवं स्पष्ट लेख में कीजिए।

प्रश्न 1 अपठित गद्यांश को पढ़कर निम्न प्रश्नों के उत्तर दीजिए —

(1×5=5)

मानव जीवन को संग्राम की संज्ञा से विभूषित किया है। इस जीवन संग्राम में उसे कभी सुख मिलता है तो कभी दुःख। सुख मन में आशा एवं प्रसन्नता का संचार करते हैं तो दुःख उसे निराशा एवं शोक के सागर में डुबो देते हैं। इसी समय व्यक्ति के आत्मविश्वास की परीक्षा होती है। जो व्यक्ति इन प्रतिकूल परिस्थितियों में भी अपना विश्वास नहीं खोता है और आशावादी बनकर संघर्ष करता है वही सफलता प्राप्त करता है।

आत्मविश्वास के बिना सफलता की कामना करना दिवास्वप्न देखने के समान है। मनुष्य के मन में यदि आशावादिता नहीं है और वह निराशा मन से संघर्ष करता भी है तो उसकी सफलता में संदेह बना रहता है। कहा भी गया है कि मन के हारे हार है मन के जीते जीत। मन में जीत के प्रति हमेशा आशावादी बने रहना जीत का आधार बन जाता है। यदि मन में आशा संघर्ष करने की इच्छा और कर्म ठठा हो तो मनुष्य के लिए कुछ भी असंभव नहीं है।

वह विपरीत परिस्थितियों में भी उसी प्रकार विजय प्राप्त करता है जैसा नेपोलियन बोनापार्ट ने। इसी प्रकार निराशा, काम में हमें मन नहीं लगाने देती है और आधे-अधूरे मन से किया गया कार्य कभी सफल नहीं होता है। संसार के महापुरुषों ने आत्मविश्वास, दृढनिश्चय, संघर्षशीलता के बल पर आशावादी बनकर सफलता प्राप्त की। अब्राहम लिंकन हों या एडिसन, महात्मा गांधी हों या सरदार पटेल सभी ने प्रतिकूल परिस्थितियों में भी आशावान रहे और अपना-अपना लक्ष्य पाने में सफल रहे।

सैनिकों के मन में यदि एक पल के लिए भी निराशा का भाव आ जाए तो देश को गुलाम बनने में देर न लगेगी। मनुष्य को सफलता पाने के लिए सदैव आशावादी बने रहना चाहिए। (i) मन में आशा एवं प्रसन्नता का संचार किससे होता है?

- (क) सुख से
- (ख) दुःख से
- (ग) लड़ने से
- (घ) घूमने से

(ii) किसके बिना सफलता की कामना करना दिवास्वप्न देखने के समान है?

- (क) स्वतंत्रता
- (ख) आत्मविश्वास
- (ग) सहनशीलता
- (घ) जागरूकता

(iii) निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़कर उचित विकल्प का चयन कीजिए—

कथन (A) यदि मन में आशा संघर्ष करने की इच्छा और कर्मठता हो तो मनुष्य के लिए कुछ भी असंभव नहीं है।

कारण (R) मन में जीत के प्रति हमेशा आशावादी बने रहना जीत का आधार बन जाता है।

- (क) कथन (A) तथा कारण (R) दोनों गलत हैं।
- (ख) कथन (A) गलत है तथा कारण (R) सही है।
- (ग) कथन (A) सही है लेकिन कारण (R) गलत है।
- (घ) कथन (A) तथा कारण (R) दोनों सही हैं। तथा कारण (R) कथन (A) की सही व्याख्या करता है।

(iv) संसार के महापुरुषों ने किसके बल पर आशावादी बनकर सफलता प्राप्त की?

(v) दुख मनुष्य के साथ क्या करता है?

निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1×5=5)

प्रश्न 2 जिस शब्द की विशेषता बताई जाए, उसे क्या कहते हैं? उदाहरण सहित स्पष्ट कीजिए।

प्रश्न 3 'पथ' शब्द का पर्यायवाची शब्द क्या है?

प्रश्न 4 सूत शब्द के दो अनेकार्थी शब्द क्या हैं?

प्रश्न 5 साल भर तो पढ़ाई नहीं की, अब असफल होने पर रोते हो, इससे क्या लाभ?

..... । रिक्त स्थान में उपयुक्त लोकोक्ति क्या होगी?

प्रश्न 6 'अक्ल पर पत्थर पड़ना' इस मुहावरे का अर्थ लिखते हुए वाक्य में प्रयोग कीजिए?

प्रश्न-7 निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1½×2=3)

(क) भारतेन्दु ने हरिद्वार के प्राकृतिक सौंदर्य को कैसे वर्णन किया है? आपको कौन-सी जगह पसंद है और क्यों?

(ख) 'एक आशीर्वाद' कविता का मुख्य संदेश क्या है? यदि तुम्हें अपने किसी छोटे भाई या बहन को आशीर्वाद देना हो, तो तुम क्या कामना करोगे?

**प्रश्न 8 निम्नलिखित प्रश्न का उत्तर दीजिए—**

**(2×1=2)**

भगीरथ बाबू को पहले से कितने बच्चे थे और उनका लालन-पालन कैसे करते थे?

**प्रश्न 9** दो मित्रों के बीच विद्यालय में होने वाले 'खेल दिवस' को लेकर हो रही बातचीत को 70 से 80 शब्दों में संवाद के रूप में लिखिए ।

**(5×1=5)**

**प्रश्न-10** विशेषण के भेदों को दर्शाते हुए झूमर बनाइए ।

**(5×1=5)**

**Subject: Sanskrit**

- निर्देश- 1 प्रदत्त प्रश्नानाम् उत्तरम् संस्कृत पुस्तिकायाम् एव लिखत ।  
2 प्रश्नानाम् उत्तरम् पूर्णवाक्येन लिखित्वा रिक्तस्थानानि रेखांकित करणीय ।  
3 कार्यम् स्वच्छं ,शुद्धं एवं स्पष्टं लेखम् एव लेखनीय ।

प्रश्न 1 अधोलिखितं गद्यांशं पठित्वा बहुविकल्पकान् प्रश्नान् उत्तरत - (1×5=5)

महर्षिः वाल्मीकिना विरचितं रामायणं भारतस्य अतीव महत्त्वपूर्णः ग्रन्थः अस्ति । रामायणम् आदिकाव्यं वाल्मीकिः च आदिकविः कथ्यते । अत्र दशरथस्य पुत्रस्य श्रीरामस्य कथा वर्णिता । रामः अत्र मर्यादा पुरुषोत्तमरूपेण चित्रितः । श्रीरामः सर्वगुणसम्पन्नः सर्वप्रियः च आसीत् । तेन पृथिव्याम् अधर्मनाशो विहितः, धर्मश्च रक्षितः । दुष्टस्य सर्वदा नाशो भवति, सत्यं च जयति इति रामायणस्य सन्देशः । रामायणे अतीव मनोहरं काव्यं लभते । अस्मिन् काव्ये वन, नदी, पर्वत, सूर्योदय, चन्द्रोदय, षड् ऋतुः, समुद्रादीनां सुन्दरं प्राकृतिक वर्णनं दृश्यते । सीतासौन्दर्यम् वर्णनं, तारासौन्दर्यवर्णनं, रामगुणसंकीर्तनं च चित्ताकर्षम् अस्ति । वाल्मीकिना अयोध्या, किष्किन्धालङ्का आदि नगराणां सजीव चित्रम् क्रियते । विविधात् युद्धवर्णनानि वाल्मीकेः वर्णनं कौशलं प्रदर्शयन्ति । रामायणे सर्वेषां वीर, करुण आदि रसानां सञ्चारः अनुभूयते । एतत् एव कारणेन एव सर्वस्मिन् जगति रामायणस्य प्रचारः अभवत् । भारतस्य सर्वासु भाषासु रामायणस्य अनुवादाः रूपान्तराणि च उपलभ्यन्ते । रामायणस्य आधारेण कविभिः अनेकानि काव्यानि नाटकानि च विरचितानि । इण्डोनेशिया-कम्बुज-थाइलैण्ड आदि देशानां भाषासु रामायणस्य रूपान्तराणि कृतानि । तत्र मन्दिराणां मूर्तिषु रामकथादृश्यानि अङ्कितानि, साम्प्रतमपि च काले काले तत्र रामायणनाट्यं प्रदर्शयते । रामायणं पठित्वा जनस्य मनसिः तृप्तिः भवति । पुनः पुनः अपि रामायणस्य पाठे जनः नवं रसं प्राप्नोति ।

(i) रामायणस्य सन्देशः कः अस्ति?

- (क) दुष्टस्य सर्वदा नाशो भवति, असत्यं च जयति ।  
(ख) दुष्टस्य सर्वदा उत्थानं भवति, सत्यं च जयति ।  
(ग) दुष्टस्य सर्वदा नाशो भवति, सत्यं च जयति ।  
(घ) दुष्टस्य कदापि नाशो न भवति, सत्यं च जयति ।

(ii) रामायणम् केन रचिता?

- (क) महर्षि वाल्मीकिना  
(ख) महर्षि विश्वामित्रेण  
(ग) महर्षि वशिष्ठेन  
(घ) महर्षि दुर्वाशया

(iii) श्रीरामः कीदृशः आसीत् ?

- (क) सर्वगुण विपन्नः सर्वप्रियः च ।
- (ख) सर्वगुण सम्पन्नः पित्रिम् प्रियः च ।
- (ग) सर्वगुण सम्पन्नः भ्रातरम् प्रियः च ।
- (घ) सर्वगुण सम्पन्नः सर्वप्रियः च ।

(iv) रामायणे केषाम् रसानां सञ्चारः अनुभूयते ?

- (क) हास्य , करुण आदि रसानाम्।
- (ख) वीर , करुण आदि रसानाम्।
- (ग) वीर , भक्ति आदि रसानाम्।
- (घ) शान्त , करुण आदि रसानाम्।

(v) 'धर्मः, दुष्टः , सत्यम्' इति पदानाम् विलोम पदानि कानि सन्ति ?

- (क) अधर्मः ,सज्जनः ,असत्यम्
- (ख) अधर्मः ,दुर्जनः ,असत्यम्
- (ग) अकर्मः ,सज्जनः ,असत्यम्
- (घ) कुधर्मः ,सज्जनः ,असम्मानम्

प्रश्न 2 चित्रं दृष्ट्वा मञ्जूषायां दत्तपदानां सहायतया रिक्तस्थानानि पूरयत —

( $\frac{1}{2} \times 4 = 2$ )

मञ्जूषा — पुरुषौ , महिला , थालिका , देवालयं,



- (क) अस्मिन् चित्रे एकम् .....अस्ति ।
- (ख) द्वौ ..... स्तः ।

- (ग) एका ..... अस्ति ।  
(घ) तस्य हस्ते ..... अस्ति ।

प्रश्न 3 उचितानि पदानि चित्वा अधोलिखितं संवादं पूरयत — ( $\frac{1}{2} \times 4 = 2$ )

मञ्जूषा — क्षमां , माता , करिष्यामि , उचितम्

पिता - पुत्र! भवान् किमर्थम् स्वपुस्तकानि उचितरूपेण न स्थापयति ?

पुत्रः - [1]----- कुरु ।

पिता - भवतः [2]----- एव सम्पूर्ण दिवसे भवतां पुस्तकानि उचित स्थाने स्थापयति ।

पुत्रः - पुनः एतत् न [3]----- ।

पिता - एतत् न [4]..... सर्वे एव स्व कर्तव्यं पालयन्तु ।

पुत्रः - अहम् प्रतिज्ञां करोमि अद्यतः इत्थं न करिष्यामि ।

प्रश्न 4 चित्रम् रचयित्वा केचन त्रयस्य वाद्ययंत्राणाम् नामानि संस्कृते लिखत । (3)

प्रश्न 5 कोष्ठके प्रदत्तैः उचित संख्या पदैः रिक्तस्थानानि पूरयत- ( $\frac{1}{2} \times 4 = 2$ )

- (1) मम विद्यालये (30) ..... कक्षाः सन्ति ।  
(2) क्रीडाक्षेत्रे (19) ..... बालकाः तिष्ठन्ति ।  
(3) एतेषां पुस्तकानाम् मूल्यं (20) ..... रूप्यकाणि सन्ति ।  
(4) चलचित्रगृहे (23)..... दर्शकाः चलचित्रम् पश्यन्ति ।

प्रश्न 6 अधोलिखितेषु रिक्तस्थानेषु प्रकृति प्रत्ययं संयोज्य वाक्यपूर्तिं कुरुत — ( $\frac{1}{2} \times 2 = 1$ )

1 राकेशः पचतंत्रम् पुस्तकम् — ( पठ् + तुमुन् ) इच्छति । ।

2 मातामही भोजनम् — ( खाद् + क्त्वा ) विश्रामं करोति ।

प्रश्न 7 घटिकां रचयित्वा प्रदत्तं समयं संस्कृते लिखत । ( $\frac{1}{2} \times 4 = 2$ )

4:30 , 5:00 , 6:45 , 8:15

प्रश्न 8 रेखांकित पदम् आधृत्य प्रश्नं निर्णीयताम् - ( $\frac{1}{2} \times 2 = 2$ )

- (1) हिरण्यकः चित्रवने निवसति ।  
(2) वातावरणम् स्वच्छम् अस्ति ।

प्रश्न 9 शब्दानाम् अर्थः लिखत — ( $\frac{1}{2} \times 4 = 2$ )

व्याधः , प्रच्छन्नः , आकर्ष्य , सत्त्वरम्

#### परियोजना कार्य

प्रश्न 10 चित्रसहित संस्कृत श्लोक लिखकर एक सुंदर फाइल कवर बनाइए । (5×1=5)

**Subject: Mathematics**

**General Instructions:**

**General Instructions:**

- 1) The work should be done neatly and systematically.
- 2) The given questions are to be done in the Math notebook.
- 3) Attempt all questions

No. of questions: 7

M.M. 25

Q1. Find value of the following : (2)

(i)  $(3^0 + 4^{-1}) \times 2^2$

(ii)  $(2^{-1} \times 4^{-1}) \div 2^{-2}$

Q2. Simplify : (2)

$$\left( \frac{a^4 b^2}{a^{-1} b^3} \right)^{-2}$$

Q3. A new sapling starts with a height of 2 cm. How tall might the plant be after 4 years if its height doubles each year? (2)

Q4. Given  $125^2 = 15625$ , what is the value of  $126^2$  and  $127^2$ ? (3)  
(without calculation by using the properties of square numbers )

Q5. If Rajat takes a million seconds to complete a project, then in how many days he will complete it ? (3)

Q6. Calculate and write the answer in scientific notation: (3)  
(To be done on portfolio sheet )

(i) There are about 100 million bee colonies in the world. Find the number of honeybees if each colony has about 50,000 bees.

(ii) The human body has about 38 trillion bacterial cells. Find the bacterial population residing in all humans in the world.

(iii) Total time spent eating in a lifetime in seconds.

**Q7. Project Work: *The Story of Numbers***

**(10)**

**Project Structure**

**1. Introduction – Why Counting Was Needed**

Explain how humans began counting in daily life for trade, farming, time, and keeping records.

**2. Key Highlights – Evolution of Number Systems**

Describe ancient number systems such as Egyptian, Babylonian, and Roman numerals. Include the discovery of zero in India by Aryabhata and explain how the place-value system made calculations easier and more efficient.

**3. Comparison Table**

Prepare a chart comparing numbers from 1–20 in:

- Roman Numerals
- Egyptian Numerals
- Modern Hindu-Arabic Numerals

**4. The Indian Number System – A Revolutionary Discovery**

Explain the importance of zero and the Indian place-value system and how it influenced mathematics across the world.

**5. Conclusion – Importance of Numbers in Everyday Life**

Summarize how number systems developed over time and why they are essential in modern society.

**6. Quiz Section**

Create a short quiz with a few questions related to number systems and the history of numbers.

**Subject: Science**

No. of questions: 10

M.M. 25

**General Instructions:**

- \* Neatly write the answers in your fair notebook.
- \* Attempt the questions keeping in mind the weightage of each question.

Q1. Electric heaters use nichrome wire instead of copper wire because nichrome: (1)

- A. is a better conductor than copper
- B. produces more heat and does not melt easily
- C. does not allow current to pass
- D. cools down very quickly

Q2. A student observes that a candle burns brighter in a closed room when a glass jar is placed over it compared to when it is kept open. Which explanation best fits this observation? (1)

- A. The jar increases oxygen supply
- B. The jar traps heat which increases combustion rate temporarily
- C. The jar limits oxygen supply, so flame becomes dimmer slowly after a short bright phase
- D. The candle produces extra fuel inside the jar

Q3. **Assertion (A):** A shadow becomes longer when the Sun is near the horizon. (1)

**Reason (R):** The angle of incidence of light increases when the Sun is near the horizon.

- A. Both A and R are true and R explains A
- B. Both A and R are true but R does not explain A
- C. A is true but R is false
- D. A is false but R is true

Q4. A gardener collected dry leaves and kitchen waste in a compost pit. After a few weeks, the waste changed into dark-coloured manure. (2)

- (a) Which microorganisms help in the decomposition of waste?
- (b) State one environmental benefit of decomposition of biodegradable waste.

Q5. A student observed that a compass needle placed near a current-carrying wire got deflected. (2)

- a. What does this observation show?
- b. What will happen to the compass needle when the current is switched OFF?

Q6. Riya prepared two bowls of batter for making snacks. In Bowl A, she added yeast and kept it in a warm place for some time. In Bowl B, she added ENO just before cooking. She observed that both batters became fluffy, but Bowl A developed a slight sour smell. (3)

- (a) Which process in Bowl A caused the batter to rise?
- (b) Why did Bowl B become fluffy immediately after adding Eno?
- (c) What does the sour smell in Bowl A indicate about the activity of yeast?

### Std. VIII Worksheet 4

Q7. A student wants to investigate how temperature affects the rate of evaporation of water. (3)

- Identify one variable that must be kept constant.
- Suggest one method to increase reliability of results.
- State one real-life application of this investigation.

Q8. Two students made electromagnets using iron nails and copper wire. One electromagnet attracted more pins than the other. Give any three possible reasons why one electromagnet was stronger. (3)

Q9. A group of students is investigating why different materials heat up at different rates under sunlight. They place identical pieces of metal, wood, and plastic under the Sun for equal time and measure temperature changes. (4)

They observe:

- Metal heats up quickly
- Plastic heats moderately
- Wood heats slowly

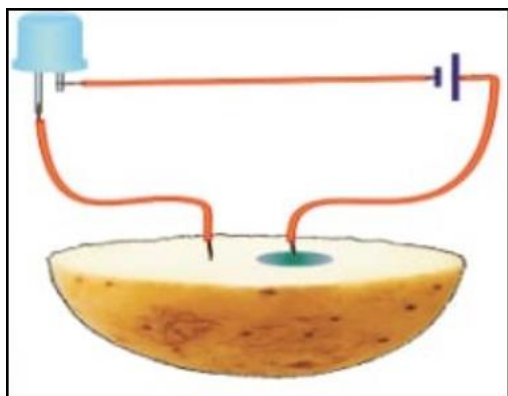
They conclude that materials absorb heat differently.

- Identify the type of material that absorbs heat fastest.
- Give one reason for difference in heating rates.
- Suggest one control variable in this experiment.
- Write one real-life application of this concept.

Q10. **Activity - Electrolysis of Potato: Exploring Chemical Effects of Electricity** (5)

#### Materials Required

- Potato (cut into two halves)
- 2 copper wires/strips
- Battery (3V–6V)
- Battery holder/clips
- LED
- Connecting wires
- 2 alligator clips



## Std. VIII Worksheet 4

### Procedure

1. Insert two copper wires into the potato at a small distance.
2. Connect the potato, battery and LED using wires/alligator clips to complete the circuit.
3. Ensure the longer leg of the LED is connected to the positive terminal of the battery.
4. Observe the LED and the potato carefully after a few minutes.

### Answer the following questions:

- a. Why does a greenish blue colour appear near one copper wire in the potato?
- b. What will happen if the LED connections are reversed?
- c. Will the LED glow if lemon juice or vinegar is used instead of potato? Why?
- d. Why are the two copper wires inserted at a distance from each other in the potato?
- e. What do you conclude from this activity about the chemical effects of electric current?

**Subject: Social Science**

**General Instructions:**

- **The work should be done neatly and in a systematic way.**
- **The given assignments are to be done in History, Civics, and Geography notebook.**
- **Mention the number of worksheets while doing the work.**
- **Write all the questions along with the answers.**

No. of questions: 10

M.M. 25

- Q1. Why is the First battle of Panipat considered a turning point in Indian history? (1)
- A) It marked the end of the Mughal rule in India. (O.B.)
- B) It divided India into small kingdoms.
- C) It established British control in India.
- D) It marked the beginning of Mughal rule in India.
- Q2. Which of the following is a non-renewable resource? (1)
- A) Wind energy
- B) Forests
- C) Sunlight
- D) Minerals
- Q3. The right to vote is an example of: (1)
- A) Social right
- B) Political right
- C) Religious right
- D) Economic right
- Q4. Mention the features of Mansabdari system. (2)
- Q5. Suppose forests in a region are continuously cut down for construction. Predict any four consequences. (2)
- Q6. Why are forests called the “lungs of the Earth”? (2)
- Q7. Suppose elections are not conducted fairly. What problems may arise in a country? (2)
- Q8. Describe the administration system under the Sultanate. (3)
- Q9. Why should fossil fuels be used carefully? Write any three reasons. (3)
- Q10. Describe the role of the Election Commission in conducting free and fair elections. (3)

**Std. VIII Worksheet 4**

**Project work**

(5)

**Topic:**

“How does voting help in nation building?”

Students write:

- Importance of responsible voting.
- How can youth strengthen democracy?

**Subject: Computer Science**

**Practical Activity:**

- **Note:** Open MS-Word file and write down all the practical questions.
- Take the snip of the programming workspace and game simulator.
- Then paste it under each practical.
- Save the file as a pdf and upload under the ASSIGNMENT created in MS-Teams

**Using MakeCode Arcade, design block code programming for the following questions. (5x5=25)**

Practical 1: To calculate the circumference of a circle.  $[c=2*3.14*r]$

Practical 2: To calculate the area of triangle.  $[a=0.5*b*h]$

Practical 3: To check whether the entered number is even or odd.

Practical 3: To check whether a person is eligible to be considered a senior citizen.

Practical 4: Design a function block to calculate the volume of a cuboid.  $[v=l*b*h]$

Practical 5: Design a function block to calculate the simple interest.  $[si=(p*r*t)/100]$

**Subject: Elementary Math(For students with special needs)**

**General Instructions:**

- 1) The work should be done neatly and systematically.
- 2) The given questions are to be done in the Math notebook.
- 3) Attempt all questions.

Q1 Choose the correct option: (1×4)

(i) In simplification, division is done before -----

- a) multiplication    b) addition    c) subtraction    d) brackets

(ii)  $45 \div 5 + 4 =$  -----

- a) 13    b) 10    c) 11    d) 0

(iii)  $(19 - 7)$  divided by  $(18 \div 3) =$  -----

- a) 9    b) 2    c) 12    d) None

(iv)  $7 - 1 + 8 =$  -----

- a) 7    b) 6    c) 8    d) 14

Q2 Simplify the following: (1×4)

I.  $8 + 3 - 2$

II.  $3 - 52 + 60$

III.  $7 \times 3 - 2$

IV.  $13 \times 4 - 2$

Q3 Simplify: (1.5×4)

I.  $5 \times 10 \div 2 + 4$

II.  $6 \times 5 + 20 \div 4 - 2$

III.  $105 - 45 \div 3 + 15 \times 2$

IV.  $25 \div 5 - 3 + 2 \times 2$

Q4 Simplify: (2×4)

I.  $[ 4 + \{ ( 8 \times 9 ) \div 12 \} ] - 10$

II.  $[ 14 \{ ( 125 - 20 ) \div 15 \} ]$

III.  $[ 26 - \{ ( 3 \times 8 ) \div 4 \} ] \div 5$

IV.  $[ 9 \{ ( 8 + 2 ) - 4 \} + 6 ] - 30$

Q5 Write your and your brother's date of birth and arrange digits in the smallest and the greatest possible numbers using each of the following digits only once: (3×1)