



St. Mary's School, Dwarka

Holiday Homework

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.**

Q1. Read the following passage.

Plastic was once seen as a miracle material. It is light, strong, waterproof, and cheap to produce. Today, plastic is used everywhere in packaging, bottles, toys, furniture, clothes, and even electronics. However, what was once a useful invention has now become one of the greatest threats to our environment.

One of the biggest problems with plastic is that it does not decompose easily. A single plastic bottle can take hundreds of years to break down. Most of the plastic we use ends up in landfills, rivers, and oceans. Marine animals often mistake plastic for food. Sea turtles, whales, and seabirds have died after eating plastic bags or getting trapped in plastic waste. This harms not only the animals but also the entire food chain, including humans.

Microplastics—tiny pieces of broken-down plastic—are another serious issue. These small particles are found in the water we drink, the food we eat, and even the air we breathe. Scientists believe that microplastics can enter our bodies and may affect our health over time.

The problem of plastic pollution is made worse by human habits. People use plastic bags, bottles, and straws every day and throw them away after a single use. Many do not bother to recycle. Even when people try to recycle, not all plastics can be reused due to the chemicals they contain.

However, there is hope. Many countries are banning single-use plastics and encouraging people to carry reusable bags, bottles, and containers. Shops and supermarkets are being asked to reduce plastic packaging. Schools and communities are spreading awareness about the harmful effects of plastic and how to reduce its use.

As responsible citizens, students can also play a role. Saying no to plastic straws, using metal or bamboo alternatives, bringing cloth bags for shopping, and participating in clean-up drives are small steps that can make a big difference. Plastic pollution is a modern problem, but if each one of us makes better choices, we can protect our Earth for future generations.

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

i. What makes plastic a widely used material around the world? (1)

Plastic is a widely used material around the world as it is _____.

- a) colourful and used for decoration
- b) costly and reused by industries
- c) light, strong, waterproof, and cheap
- d) made naturally and easily available

ii. How does plastic pollution affect marine animals? (1)

- a) makes the ocean water safe for them
- b) eat it by mistake and often die
- c) protects them from dangerous weather
- d) helps them build safe new shelters

iii. What are microplastics, and why are they dangerous? (1)

- 1. tiny bits are formed when plastic breaks down
- 2. special particles used for ocean cleaning
- 3. found in air, water, and the human body
- 4. helpful in making strong building blocks

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

iv. According to the passage, which human habits worsen plastic pollution? (1)

- a) constructing buildings close to beaches
- b) eating too much sea fish every day
- c) throwing away plastic after one use
- d) using recycled paper for shopping

v. Choose the word from the passage that means the same as 'harmful waste from factories'. (1)

- a) smoke that rises into the clean air
- b) effluents released into the water
- c) waste collected and buried in the land
- d) dirt that gathers on building walls

Q2. You are Rehan/Riya Kapoor, Vice President of the Literary Society at Maple Grove School, Kolkata. Draft a notice for the students of classes VIII-XII for a “Slam Poetry Competition”, where students can present their original poetry. Put the notice in a box and include all the necessary details. It should not exceed 50 words. (3)

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

Mr. Shah: Good morning! I wanted to ask if you (i)_____ the documents I sent you last week.

Priya: Oh, yes! I (ii) _____ them yesterday. They (iii)_____ all the information we needed.

Mr. Shah: That’s great to hear! I (iv) _____ you to complete the report by the end of this week.

- | | | | |
|-----------------------|------------------|------------------|------------------|
| i. a. received | b. will receive | c. have received | d. was receiving |
| ii. a. received | b. was receiving | c. have received | d. will receive |
| iii. a. have included | b. included | c. are including | d. will include |
| iv. a. expect | b. expected | c. will expect | d. have expected |

Q4. Combine the two sentences into a single sentence. (2)

- i. We waited for the bus. The rain stopped.
- ii. They were late. They apologised to the teacher.

Q5. Read the given extract to attempt the questions that follow. (2)

“Here, let me help you,” said Mohan. “My room okay, Amma?”

“No, I think the puja room is better. A light there will look more normal.”

i. Why does Amma likely prefer the puja room for keeping the machine? (1)

Amma likely prefers the puja room for keeping the machine as it is _____.

- a) the darkest and quietest room in the house
- b) a sacred place where light appears acceptable
- c) a spacious and more relaxing room to use
- d) nearer to the main door and convenient

ii. What does the exchange reveal about the context of the situation? (1)

- a) They are preparing for a guest to arrive soon.
- b) There is some secret activity that must be hidden.
- c) They are conducting a late-night prayer service.
- d) The house has limited working electrical outlets.

Q6. How does the poet describe the peaceful atmosphere of Innisfree in the poem ‘The Lake Isle of Innisfree’? (Answer in 30-40 words) (2)

Q7. How does the author create humour in the lesson 'The Night the Ghost Got In'?
(Answer in 30-40 words) (2)

Q8. What are some of the disasters that the world could face if global warming is not checked? (Answer in 30-40 words) (2)

Q9. Why was Manju disappointed in the lesson 'The Narayanpur Incident'? (Answer in 40-60 words) (3)

Activity:

Q10. Create a placard with a powerful slogan or message inspired by the lesson 'The Narayanpur Incident' and the Quit India Movement.

- The placard should be designed on an A3-size sheet, mounted on cardboard, and attached to a stick to make it easy to hold and display.
 - Use bold text, symbols, and visuals to reflect the spirit of patriotism and protest.
- (2)

Subject: Hindi

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

2 कार्य स्वच्छ शुद्ध एवं स्पष्ट लेख में कीजिए।

No. of questions: 10

M.M. 25

प्रश्न 1 निम्नलिखित अपठित गद्यांश को पढ़कर इसके आधार पर सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए — (1×5=5)

माउंट एवरेस्ट, जिसे नेपाल में सागरमाथा के नाम से भी जाना जाता है, दुनिया की सबसे ऊँची चोटी है। 8,848 मीटर की प्रभावशाली ऊँचाई पर स्थित, यह दुनिया भर के पर्वतारोहियों और साहसी लोगों के लिए एक प्रतिष्ठित गंतव्य है। माउंट एवरेस्ट पर चढ़ना एक कठिन और चुनौतीपूर्ण उपलब्धि है जिसके लिए महीनों की तैयारी और उच्च स्तर की शारीरिक क्षमता की आवश्यकता होती है। शिखर तक की यात्रा लगभग 5,364 मीटर की ऊँचाई पर स्थित बेस कैंप से शुरू होती है। वहां से, पर्वतारोही खतरनाक बर्फबारी, खड़ी चट्टानों और अप्रत्याशित मौसम की स्थिति के माध्यम से सही राह दिखाते हुए विश्वासघाती आरोहण की एक श्रृंखला शुरू करते हैं। उन्हें कुर्र्यात खुम्बू बर्फबारी का सामना करना पड़ता है, जो चढ़ाई का लगातार बदलता और खतरनाक हिस्सा है। माउंट एवरेस्ट की चोटी पर पहुँचना एक महत्त्वपूर्ण उपलब्धि है जिसके लिए अत्यधिक दृढ़ संकल्प, लचीलापन और एकता की आवश्यकता होती है। रास्ते में, पर्वतारोही अनुभवी शेरपा मार्गदर्शकों पर भरोसा करते हैं, जिन्हें पहाड़ और उसके मार्गों का व्यापक ज्ञान है।

(i) माउंट एवरेस्ट की ऊँचाई कितनी है?

- (क) 8,849 मीटर
- (ख) 8,848 मीटर
- (ग) 8,948 मीटर
- (घ) 8,858 मीटर

(ii) पर्वतारोही किस पर विश्वास करते हैं?

- (क) अनुभवी शेरपा मार्गदर्शकों पर
- (ख) अपने आत्मविश्वास पर
- (ग) अपने दोस्तों पर
- (घ) पहाड़ों की ऊँचाई पर

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

कथन (A) माउंट एवरेस्ट पर चढ़ना एक कठिन और चुनौतीपूर्ण उपलब्धि है।

कारण (R) उन्हें कुख्यात खुम्बू बर्फबारी का सामना करना पड़ता 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 गलत व्याख्या करता है।

(iv) माउंट एवरेस्ट की चोटी पर पहुँचने के लिए क्या आवश्यक है?

(v) माउंट एवरेस्ट को नेपाल में किस नाम से जाना जाता 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 'हार और सूत' शब्दों 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) बदलू लाख की चूड़ियाँ कैसे और क्यों बनाता था?

(ख) विदा करने आए लोगों की प्रतिक्रिया कैसी थी और क्यों? पाठ बस की यात्रा के आधार पर स्पष्ट कीजिए।

प्रश्न 8 निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1×2=2)

(क) बालक सिद्धार्थ का नाम गौतम बुद्ध कैसे पड़ा?

(ख) राजा शुद्धोदन किस वंश के राजा थे? उनकी पहली पत्नी का क्या नाम था?

प्रश्न 9 दो मित्रों के बीच वार्षिकोत्सव को लेकर हो रही बातचीत को 70 से 80 शब्दों में संवाद के रूप में लिखिए —

(5×1=5)

प्रश्न-10 शू बॉक्स का प्रयोग करते हुए बस का सुन्दर-सा मॉडल 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 ।

Number of Questions : 10

M.M.25

प्रश्न 1 अधोलिखितं गद्यांशं पठित्वा प्रश्नान् उत्तरम् उचित विकल्पम् चित्वा लिखत । (5)
मदर टेरेसा सुप्रसिद्धा समाजसेविका आसीत् । रोमन् क्याथोलिक् सम्प्रदायस्य संयासिनी आसीत् । मदर टेरेसायाः जन्म 1910 तमे वर्षे अगस्तमासस्य सप्तविंशतिः दिनांके अभवत् । सा युगोस्लाविया देशस्य एक कृषकस्य सुता आसीत् । सा द्वादशवर्षस्य अल्पावस्थायाम् एव दुखीजनानाम् सेवाकार्ये प्रवृत्ता अभवत् । सा करुणायाः साक्षात् प्रतिमूर्तिः आसीत् । सा प्रेमदयाभावेन प्लावितहृदयेन निर्बलानाम् रोगीनाम् जीवनपर्यन्तम् सेवयाम् तल्लीना भवति स्म । यथा महात्मा गाँधी 'राष्ट्रपिता' पदेन विख्यातः अस्ति तथैव इयम् समस्ते विश्वे 'मदरटेरेसा' नाम्ना प्रसिद्धा अभवत् ।

1 मदर टेरेसा का आसीत् ?

- (क) चिकित्सका
- (ख) समाजसेविका
- (ग) अध्यापिका
- (घ) विमानचालिका

2 सा कस्य देशस्य आसीत् ?

- (क) अमेरिकायाः
- (ख) कनाडायाः
- (ग) युगोस्लाविया
- (घ) चीनस्य

3 सा कदा दुखीजनानाम् सेवाकार्ये प्रवृत्ता अभवत्?

- (क) नवदशवर्षस्य
- (ख) पञ्चदशवर्षस्य
- (ग) एकादशवर्षस्य
- (घ) द्वादशवर्षस्य

4 मदर टेरेसायाः जन्म कदा अभवत् ?

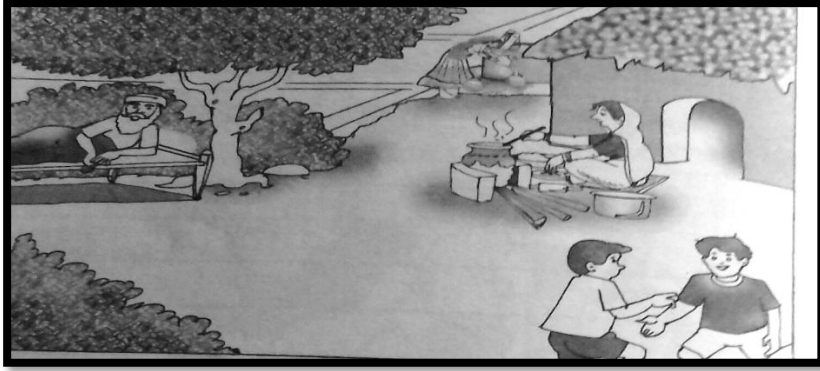
- (क) 1910 तमे वर्षे
- (ख) 1911 तमे वर्षे
- (ग) 1810 तमे वर्षे
- (घ) 1210 तमे वर्षे

5 'कृषकस्य' इति पदस्यः विभक्तिः वचनम् च किम् अस्ति?

- (क) षष्ठी वि एकवचनम्
- (ख) षष्ठी वि द्विवचनम्
- (ग) सप्तमी वि बहुवचनम्
- (घ) सप्तमी वि एकवचनम्

प्रश्न 2 चित्रं दृष्ट्वा मञ्जूषायां प्रदत्त पदानाम् सहायतया रिक्तस्थानानि पूरयत- ($\frac{1}{2} \times 4 = 2$)

मञ्जूषा = महिला , वृद्धः , खेलतः , भोजनम् , ।



- 1 अस्मिन् चित्रे एका ----- अस्ति ।
- 2 महिला ----- पचति ।
- 3 द्वौ बालौ ----- ।
- 4 वृक्षस्य अधः ----- तिष्ठति ।

प्रश्न 3 पितरम् प्रति पत्रं उचितपदैः रिक्तस्थानानि पूरयत — ($\frac{1}{2} \times 6 = 3$)

मञ्जूषा - गमिष्यन्ति , सादरम् , आगत्य , लाभप्रदम् , मित्रैः , परीक्षा परिणामः ।

छात्रावासतः

नवदिल्लीतः

दिनांक- 25.06.25

पूज्यपितः

[1] ----- प्रणामाः ।

मम वार्षिकी परीक्षा अद्यैव समाप्ता । [2] ----- सप्ताहद्वयस्य पश्चात् आगमिष्यति । अहं [3] ----- सह शैक्षणिक भ्रमणाय भरतपुरं गच्छामि । एतत् भ्रमणम् अतीव [4] ----- भविष्यति । त्रयः अध्यापकाः अपि अस्माभिः सह [5] ----- । अतः भवता चिन्ता न करणीया । भ्रमणात् अनन्तरम् गृहम् [6] ----- भवतां दर्शनं करिष्यामि ।

भवदीयः पुत्रः
आयुषः

प्रश्न 4 अधोलिखिते संवादे मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयन्तु -
($\frac{1}{2} \times 4 = 2$)

मञ्जूषा — कीदृशः , पुस्तकम् , नीतिपरकः , प्रियम्

निशा — हे रमे! तव _____ पुस्तकम् किम् अस्ति?

रमा — मम प्रिय _____ पञ्चतन्त्रः अस्ति ।

निशा — शोभनम्! पञ्चतन्त्रे कथा अस्ति?

रमा — पञ्चतन्त्रे _____ कथा अस्ति ।

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

- (1) मम ग्रामे (45) गृहम् सन्ति ।
- (2) सभागारे (29) दर्शकाः तिष्ठन्ति ।
- (3) एतत् कलमम् मूल्यं (20) रूप्यकाणि सन्ति ।
- (4) प्रार्थनासभायाम् (15) जनाः प्रार्थनाम् कुर्वन्ति ।

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

- (1) राहुलः ईश्वरम् ----- (नम् + क्त्वा) विद्यालयम् गच्छति ।
- (2) सोहनः कार्यम् पूर्णम् ----- (कृ + क्त्वा) शयनम् करोति ।

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

6:30 4:00 12:45 2:15

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

- (1) लेखनार्थ कर्मदस्य आवश्यकतायाः अनुभूतिः न भविष्यति ।
- (2) वयं उपचारार्थं चिकित्सालयं गच्छामः ।

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

कर्मदस्य , चिकित्सालयः , विषाणहीनः , दैवम्

परियोजना कार्य

प्रश्न 10 डिजिटल भारत के चित्रों को चिपकाते हुए एक फोल्डर बनाइए ।
($5 \times 1 = 5$)

Subject: Mathematics

Number of Questions : 10

M.M. 25

Q1. Fill up the following blanks:

(0.5 x 4 = 2)

- a) A simple closed curve made up of unequal line segments is called a _____ polygon.
- b) Number of sides is equal to number of diagonals in _____ .
- c) Polygons that have no portions of their diagonals in their exteriors are called _____ polygon.
- d) Minimum possible interior angle in a regular polygon is _____.

Q2. Choose the correct option:

(1x2 = 2)

i) If $p/2 + 5/3 = -1/2$, then $p =$

- (a) $-13/3$ (b) $-3/13$ (c) $13/3$ (d) $3/13$

ii) The value of x for which the expression $3x-4$ and $2x+1$ become equal is _____.

- (a) -3 (b) 0 (c) 5 (d) 1

Q3. Simplify and solve the following equation for the given variable.

$$10p - (3p - 4) = 4(p + 1) + 9 \quad (2)$$

Q4. Verify that a) $x = 2$ is the solution of the equation $4.4x - 3.8 = 5$ (2)

b) $z = 3.3$ is a solution of $2z - 5.5 = 1.1$

Q5. Solve the given equation and find the value of y : $3\frac{1}{y} \times 5\frac{1}{4} = 17\frac{1}{2}$ (2)

Q6. Name a polygon i) with no diagonal (2)

ii) in which number of diagonals are less than number of sides.

iii) in which number of diagonals are equal to number of sides.

iv) in which number of diagonals are more than the number of sides.

Q7. Solve the following equation and check your answer: (3)

$$\frac{x+7}{2x+2} - \frac{x+4}{4x+4} = 1$$

Q8. Solve the equation: (3)

$$\frac{1}{2} \left\{ \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2}x - 2 \right) - 1 \right] - 1 \right\} + 1 = 2$$

Q9. Collect the information about ages of three persons around you in different age groups. and form an equation expressing your age in terms of their age. (e.g. your uncle's age = 34 years, your age 14 years i.e. your age is 3 less than half of your uncle's age) (3)

Activity:**Q10 Hide and Seek****(4)**

Description: From the table, choose any one item from each column to form an equation and solve it. Form at least 3 equations, mark them with different shapes or colors . One example is done for you. The items chosen in this case are encircled in the table. (To be done on A4 size sheet)

Equation: $-18a + (-3/5) = 21$

Solution of equation: $-18a = 21 + (3/5) = 108/5$

$$a = (108/5) \times (1/-18) = -108/90 = -6/5$$

3	b	+	6	=	18
-4	q	÷	8	=	21
8	a	+	-4	=	-18
-18	y	-	2/3	=	154
-21	x	×	6	=	3/2
17	p	-	-3/5	=	62
22	r	+	1	=	-2/3
65	s	-	12	=	1

Subject: Science

General Instructions

*** Neatly write the answers in a separate thin notebook.**

*** Attempt the questions keeping in mind the weightage of each question.**

No. of questions: 10

M.M. 25

Q1. Why are the straps of heavy bags made wide? (1)

- a. To make the bag look stylish.
- b. To reduce the pressure on the shoulders.
- c. To increase the pressure on the shoulders.
- d. To make it easier to carry.

Q2. Which product of coal contains benzene, naphthalene, and phenol, used in chemical industries? (1)

- a. Coke
- b. Coal gas
- c. Coal tar
- d. Petroleum

Q3. **Assertion (A):** The use of CNG as an automobile fuel reduces air pollution.

Reason (R): CNG burns completely and leaves behind harmful residues. (1)

- a. Both assertion and reason are true, and reason is the correct explanation of the assertion.
- b. Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- c. The Assertion is true, but the reason is false.
- d. Both Assertion and Reason are false.

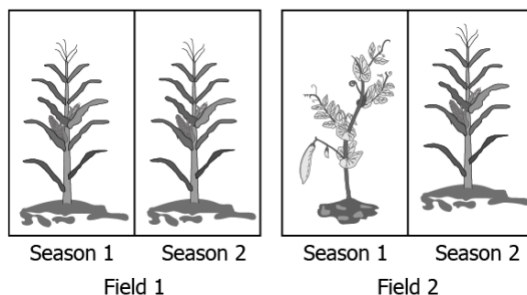
Q4. a. A farmer observed that insects were damaging the crops in the field. The teacher advised using a natural method for protection instead of chemical pesticides. What natural method can be used to protect the crops? (1)

b. After harvesting, a farmer uses a machine to separate grain from chaff. Draw a labeled diagram showing this process. (1)

Q5. Give reason: (2)

- a. The tires of heavy trucks and tractors are made very wide.
- b. It is easier to walk on soft sand if you have flat shoes compared to shoes with high heels.

Q6. a. A farmer wants to improve soil fertility without spending money on chemical fertilizers. Which natural method can be used to replenish nutrients in the soil? (1)



b. In Field A, maize was grown for two consecutive seasons. In Field B, a legume crop was grown in the first season, followed by maize in the second.

Which field is likely to have better soil quality in the third season? Justify your answer. (2)

Q7. Imagine the year 2150. Fossil fuels are completely exhausted. The world is running entirely on renewables. (3)

- How might life, industry, and transport function in this post-fossil-fuel world?
- What opportunities and limitations might exist in such a future?
- Looking back from this future, what might people regret about how fossil fuels were used?

Q8. A construction worker is trying to slide a very heavy toolbox across a rough concrete floor.

- Identify the forces acting on the toolbox and state whether they are balanced or unbalanced.
- If two workers each apply a 50 N horizontal force in the same direction to the stationary toolbox, what will be the likely effect on the toolbox's motion? Explain whether the total horizontal force acting on the toolbox is now balanced or unbalanced. (3)

Q9. A village in Rajasthan faced health issues due to the use of firewood and kerosene. With government support, households switched to piped natural gas (PNG). After a year, reports showed better indoor air quality and fewer respiratory problems, but some villagers complained about rising monthly costs. (4)

Answer the following questions:

- How is natural gas different from firewood and kerosene in terms of pollution and efficiency?
- What are the health benefits observed after the switch to PNG?
- Why might some villagers be hesitant to continue using PNG despite its benefits?
- As a member of the local governance body, how would you address the concerns of affordability while promoting clean fuel?

Q10. **Activity**

Aim: The Effect of Area on Pressure: A Thumb Impression Experiment (5)

Procedure: Take some clay, gently press your flat thumb on it, observe the mark. Now, with the same gentle push, press your thumb tip on a new spot and see the deeper mark. The smaller area of your thumb tip concentrates the force, creating higher pressure. This shows how pressure changes with the area of contact, even with the same force.

Answer the following questions based on the above activity.

- a. In this activity, you pressed your thumb flat and then with the tip. In which case was the pressure exerted on the clay greater?
- b. What two factors determine the pressure you exert on the clay with your thumb? How did this activity demonstrate the effect of one of these factors?
- c. Imagine you used a sharp pencil tip instead of your thumb tip. Would you expect the mark on the clay to be deeper or shallower (assuming the same gentle force)? Explain why based on the concept of pressure.
- d. This activity showed how changing the contact area affects pressure. Give two real-world examples where this principle is intentionally used to either increase or decrease pressure.

Subject: Social Science

Number of Questions : 10

M.M :25

General Instructions:

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

- Q1. What was the primary aim of the East India Company when it came to India? 1
- Q2. Name two European trading companies other than the English East India Company. 1
- Q3. When did Goa become a part of Portuguese rule? 1
- Q4. Write the importance of the Independent Judiciary or Parliamentary form of Government.2
- Q5. Make a G.O. of different types of resources. 2
- Q6. What do you understand by Human-made resources? Explain briefly with examples. 2
- Q7. Suggest any four ways to conserve water. 2
- Q8. Make a G.O. of the various Fundamental Rights and explain any two. 3
- Q9. Why was the Battle of Plassey a turning point in Indian history? 3
- Q10. What is a Survey? Give examples of different types of Surveys conducted during British period. 3

Fun Activity

They will **design and create a simple board game** that follows the journey of the East India Company in India.

How to Make the Game:

1. Board Design (Game Path):

- Use a sheet of cardboard or a chart paper.
- Create a **snakes-and-ladders style path** or circular track.
- Label key spots like:
 - 1600: EEIC is formed
 - 1612: Trade rights from Jahangir
 - Surat Port
 - Battle of Plassey
 - Bengal Rule Begins
 - Indian Rebellion

Include both **positive (trade success)** and **negative (conflicts, rebellion)** boxes.

2. Game Cards:

- Make 10–15 **Event Cards** with simple instructions like:
 - “You signed a treaty – move forward 2 spaces.”
 - “Conflict with Nawab – lose a turn.”
 - “You opened a factory in Madras – roll again.”
 - “Caught smuggling – go back 3 spaces.”

3. Dice & Tokens:

- Use a dice (or make a spinner).
- Create small player tokens out of paper or buttons.

Learning Outcomes:

- Understand key events of EEIC’s entry and expansion.
- Reinforce historical sequencing through game play.
- Encourage creative thinking and peer interaction.

Subject: Computer Science

No. of questions: 10

M.M. 25

Answer the following questions:

1. Draw a Venn diagram to explain the domains of AI. 1
2. Name the Indian humanoid robot developed by Mr. Dinesh Patel and can converse in 47 different languages. 1
3. Name the different domains of AI. 2

Tick the correct option.

(1x4=4)

4. Which of the following is not a domain of AI?
 - a) Data Science
 - b) Natural Language Processing
 - c) Web Designing
 - d) Computer Vision
5. In which domain of AI does the computer understand and generate human language?
 - a) Machine Learning
 - b) Robotics
 - c) Natural Language Processing
 - d) Computer Vision
6. Which AI domain is used in voice assistants like Alexa or Siri?
 - a) Data Science
 - b) Natural Language Processing
 - c) Computer Networks
 - d) Robotics
7. Which domain of AI helps self-driving cars recognize traffic signs and lanes?
 - a) Natural Language Processing
 - b) Robotics
 - c) Computer Vision
 - d) Cybersecurity

8 Application-based questions.

(1x5=5)

- i) A company uses AI to recommend products to customers based on their browsing history and preferences. Which domain of AI is being used here?
- ii) An AI system analyzes medical images to detect early signs of diseases like cancer. Which AI domain is applied in this scenario.
- iii) A virtual assistant understands and responds to voice commands, such as setting reminders or answering questions. Which AI domain is utilized in this case?
- iv) A robot in a warehouse autonomously picks and places items based on visual cues and sensor data. Which AI domain is being employed here?
- v) An AI system analyzes large datasets to identify patterns and trends, aiding in business decision-making. Which AI domain is being applied in this scenario?

9. Fill in the blanks.

(1x6=6)

- i) The domain of AI that focuses on designing and controlling physical machines is called _____.
- ii) Self-driving cars use _____ to detect obstacles, road signs, and people.
- iii) _____ helps machines understand, interpret, and respond to human languages like English or Hindi.

- iv) Applications like Google Translate and Siri use _____ to understand and respond to voice or text input.
- v) _____ is the process of collecting, analyzing, and interpreting large amounts of data to make decisions.
- vi) According to, Fei-Fei, _____ is defined as the subset of mainstream of artificial intelligence that deals with the science of making computers or machines visually enabled.

10. State whether True or False

(1x6=6)

- i) NLP helps the AI systems to gather data from visual routes.
- ii) Data Science helps AI systems to train using real-time data.
- iii) AI can never be used to recognize human faces in photos.
- iv) Machine Learning is a domain of AI that helps machines learn from data without being explicitly programmed.
- v) Robotics refers to the design and use of robots, which are physical machines, not virtual entities.
- vi) Computer Vision is used in applications like facial recognition and autonomous vehicles.

Activity:

Note: Open the 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

Design a block code programming using MakeCode Arcade for the following questions.

Practical 1: To generate the multiplication table of 6.

Practical 2: To print the message “Smart World” 3 times.

Subject: Elementary Mathematics

No. of questions: 5

M.M. 25

Q1 Choose the correct option:

(1×4=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=4)

- I. $8 + 3 - 2$
II. $3 - 52 + 60$
III. $7 \times 3 - 2$
IV. $13 \times 4 - 2$

Q3 Simplify:

(1.5×4=6)

- 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=8)

- I. $[4 + \{(8 \times 9) \div 12\}] - 10$
II. $[14 \{(125 - 20) \div 15\}]$
III. $[26 - \{(3 \times 8) \div 4\}] \div 5$
IV. $[9 \{(8 + 2) - 4\} + 6] - 30$

Activity:

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 digits only once:

(3×1=3)