



St. Mary's School, Dwarka

Holiday Homework

Class: VII

Worksheet 1

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: 10

M.M. 25

Q1. Read the following passage.

1. Kalpana Chawla, the first woman of Indian origin in space, epitomized resilience and unyielding ambition. Born in the town of Karnal, Haryana, she was captivated by aviation from a young age. Despite societal expectations and limited opportunities for women in STEM fields, she pursued her passion and eventually joined NASA as an astronaut.
2. After acquiring her initial degree in aeronautical engineering in India, Kalpana migrated to the United States to further her academic pursuits. She earned her doctorate in aerospace engineering and became a U.S. citizen. Her exceptional intellect and perseverance secured her a place on the Space Shuttle Columbia in 1997, marking her historic journey into space.
3. Tragically, her second space mission in 2003 ended in disaster when the shuttle disintegrated during atmospheric re-entry, resulting in the death of all seven astronauts aboard. The incident shocked the world and brought attention to the perils of space travel.
4. Nevertheless, Kalpana's legacy endures. Numerous educational institutions, awards, and scientific projects have been named after her. She continues to inspire countless individuals, especially young women aspiring to break barriers in the fields of science, aviation, and space exploration.

Based on your understanding of the passage, answer the following questions:

(5 × 1 = 5)

i. Why is Kalpana Chawla considered a symbol of resilience and ambition?

(1)

- a) became a pilot at a young age
- b) overcame gender and cultural barriers
- c) promoted space education around the world
- d) designed a new type of spacecraft.

ii. What does the author imply by saying that Kalpana ‘epitomized resilience’? (1)

- a) often gave up when faced with failure
- b) was successful only because of her intelligence
- c) consistently demonstrated strength and determination
- d) depended heavily on others for support

iii. Which of the following is NOT mentioned as part of Kalpana’s legacy? (1)

- a) scholarships named in her honour
- b) books written by her
- c) institutions bearing her name
- d) scientific projects inspired by her

iv. Identify the word from the passage which is closest in meaning to ‘persistence in doing something despite difficulty.’ (1)

- a) intellect
- b) resilience
- c) captivated
- d) disintegrated

v. Replace the underlined word with its antonym found in the passage: (1)

He gave up his academic dreams too soon.

- a) captivated
- b) migrated
- c) epitomized
- d) pursued

Q2. You are Ria/Ruhaan, residing at 45-B, Green Valley Apartments, Rohini. You recently visited a nature park on a school trip and found the experience deeply enriching and educational. Write a letter to your cousin Monica in about 100–120 words, sharing your experience, describing what you saw and learnt there, and encouraging her to visit such places to learn about environmental conservation. (3)

Q3. Fill in the blanks with the most appropriate option. ($\frac{1}{2} \times 4 = 2$)

Ravi looked (i) _____ his bookshelf but couldn’t find (ii) _____ of the books his teacher had asked him to read. He searched (iii) _____ the cupboard and finally found them hidden (iv) _____ a pile of old magazines.

- | | | | |
|-----------------------|------------|----------|-----------|
| i. a. in | b. over | c. into | d. at |
| ii. a. much | b. some | c. many | d. any |
| iii. a. inside | b. on | c. under | d. across |
| iv. a. below | b. between | c. among | d. Beside |

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

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

The children were (i) _____ with excitement as they waited (ii) _____ the gate to open. It was a (iii) _____ day, with clear skies and a gentle breeze. As soon as the gates opened, they rushed (iv) _____ the playground.

- | | | | |
|----------------|-------------|-------------|-----------|
| i. a. bored | b. thrilled | c. afraid | d. dull |
| ii. a. over | b. through | c. at | d. near |
| iii. a. gloomy | b. chilly | c. pleasant | d. stormy |
| iv. a. into | b. onto | c. across | d. under |

Q5. Read the given extract to attempt the questions that follow.

(2)

"Rise, brothers, rise; the wakening skies pray to the morning light,
The wind lies asleep in the arms of the dawn like a child that has cried all night."

i. What is the significance of the phrase "the wakening skies pray to the morning light"? (1)

- a) The sky is dark and gloomy.
- b) The sky is filled with clouds.
- c) The sky is celebrating the arrival of dawn.
- d) The sky is preparing for a storm.

ii. What does the comparison "like a child that has cried all night" convey about the wind? (1)

(1)

- a) The wind is restless.
- b) The wind is calm and peaceful.
- c) The wind is strong and powerful.
- d) The wind is harsh and violent.

Q6. What does Swaminathan's concern about taxes reveal about his understanding of adult responsibilities? (Answer in 30-40 words)

(2)

Q7. How is Newton shown to be different from other students during the plague? What does this reveal about his character as a learner? (Answer in 30-40 words)

(2)

Q8. How do maps help sailors and pilots, according to the poem? (Answer in 30-40 words)

(2)

Q9. In what ways does 'The Green Morning' warn us about the future of Earth and its natural resources? (Answer in 50-60 words)

(3)

Activity:

Q10. Design a team jersey on an A-4 size Sheet for one of the cricket teams from the story.

Include the following: (2)

- Team name and logo
- Colors and symbols that represent the team
- Any two values that you associate with your team
- Player name and number

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।

M.M.-25

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

(1×5=5)

भारतदेश की मिट्टी और उसकी सुगंध के एहसास को बयान नहीं किया जा सकता है। भारत को विविधताओं का देश कहा जाता है। हमारे देश के ड्राफ्टिंग कमेटी के अध्यक्ष डॉ. बी. आर. अंबेडकर को भारतीय संविधान का पिता कहा जाता है। संविधान सभा के 389 सदस्यों ने देश से संबंधित सभी मुद्दों पर विस्तार से जांच करने के लिए समितियों का गठन किया था। हमारे देश के संविधान ने प्रत्येक देशवासी को बराबर के अधिकार दिए हैं। हमारा देश लोकतांत्रिक देश है, यहाँ प्रत्येक नागरिक को अपने विचारों को रखने का अधिकार है। भारत के पड़ोसी देश के नाम पाकिस्तान, नेपाल, बर्मा, बांग्लादेश, इंडोनेशिया, मलेशिया और श्रीलंका हैं। भारत में सभी लोग धर्मों के अनुरूप उत्सव मनाते हैं। भारत में रंगो का त्यौहार होली, रोशनी से भरपूर दीपावली, भाई-बहनों का त्यौहार रक्षा बंधन, दशहरा, ईद, क्रिसमस, लोहड़ी, पोंगल सभी तरह के उत्सव लोग मना सकते हैं। भारत का भोजन दुनिया भर में लोकप्रिय है। सभी राज्यों के अपने-अपने विशेष भोजन होते हैं जिसका मज़ा हम सब देशवासी उठाते हैं। सभी राज्यों के अपने लज़्ज़तदार व्यंजन हैं, चाहे वह सरसों के साग से लेकर दक्षिण भारत के इडली डोसे तक, सभी लोग इस भोजन का आनंद उठाते हैं। रामायण, महाभारत और भगवतगीता जैसे साहित्य और उसके मूल्य हमें ज़िन्दगी के पथ पर चलना और सही-गलत में फर्क करना सिखाते हैं।

(i) किसे भारतीय संविधान का पिता कहा गया है?

(क) महात्मा गाँधी को

(ख) डॉ. बी. आर. अंबेडकर को

(ग) नरेंद्र मोदी को

(घ) राहुल गाँधी को

(ii) रामायण, महाभारत और भगवतगीता से हम क्या सीखते हैं?

(क) सही-गलत में फर्क करना

(ख) सही-गलत में फर्क न करना

(ग) एक-दूसरे से लड़ना-झगड़ना

(घ) दूसरों के इशारे पर चलना

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

कथन (A) भारतदेश की मिट्टी और उसकी सुगंध के एहसास को बयान किया जा सकता है।

कारण (R) भारत को विविधताओं का देश नहीं 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) भारत में कौन-कौन से त्यौहार मनाए जाते हैं?

(v) भारत कैसा देश है?

निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1×5=5)

प्रश्न 2 'ताजमहल' कहाँ स्थित है?' में रेखांकित शब्द **ताजमहल** संज्ञा का कौन-सा भेद है?

प्रश्न 3 34, 20, 42, 29 इन संख्याओं को शब्दों में लिखिए।

प्रश्न 4 'माता-पिता' किस समास का उदाहरण है?

प्रश्न 5 'अँगूठा दिखाना' इस मुहावरे का अर्थ बताइए।

प्रश्न-6 विशेषण के कितने भेद हैं? उनके नाम लिखिए।

प्रश्न-7 निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1½×2=3)

(क) 'कठपुतली' कविता में पहली कठपुतली को गुस्सा क्यों आया है? क्या आपको भी गुस्सा आता है? अगर आता है तो क्यों?

(ख) नदियों को हम लोकमाता क्यों कहते हैं?

प्रश्न 8 निम्नलिखित प्रश्नों के उत्तर दीजिए—

(1×2=2)

(क) देवव्रत ने क्या भीष्म प्रतिज्ञा की थी?

(ख) भीष्म किसके पुत्र थे?

प्रश्न-9 'दूफानी' कंपनी की ओर से 'नुरानी तेल' के प्रचार-प्रसार के लिए एक आकर्षक विज्ञापन तैयार कीजिए।

(5×1=5)

प्रश्न-10 बाल महाभारत के किसी एक पात्र का मुखौटा 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)

यदा सूर्योदयः भवति तदा जनाः भ्रमितुम् उद्यानम् गच्छन्ति । तत्र ते भ्रमन्ति व्यायामम् कुर्वन्ति । अनन्तरम् शाकादिकम् क्रीत्वा स्वगृहम् गमिष्यन्ति । भक्ताः स्नात्वा देवालयम् गच्छन्ति । देवालये प्रभुम् स्मृत्वा ते गृहम् आगमिष्यन्ति । स्वदिनचर्यायाम् रताः भविष्यन्ति । महिलाः ईश्वरम् नमन्ति । अनन्तरम् ताः पाकशालायाम् प्रातराशम् पचन्ति । गृहस्य सदस्याः प्रातराशम् कृत्वा स्वकार्यालयम् गमिष्यन्ति । बालाः अपि पठनाय पुस्तकानि आदाय विद्यालयम् गच्छन्ति । विद्यालयम् गत्वा गुण् प्रणम्य ते अध्ययनम् करिष्यन्ति ।

(i) भक्ताः स्नात्वा कुत्र गच्छन्ति ?

- (क) देवालयम्
- (ख) हिमालयः
- (ग) प्रातराशम्
- (घ) पाकशालायाम्

(ii) महिलाः कम् नमन्ति ?

- (क) विद्यालयम्
- (ख) ईश्वरम्
- (ग) स्वकार्यालयम्
- (घ) प्रभुम्

(iii) जनाः भ्रमितुम् कुत्र गच्छन्ति ?

- (क) स्वकार्यालयम्
- (ख) वाटिकाम्
- (ग) उद्यानम्
- (घ) देवालयम्

(iv) गृहस्य सदस्याः प्रातराशम् कृत्वा कुत्र गमिष्यन्ति ?

- (क) पुस्तकालयम्
- (ख) उद्यानम्
- (ग) स्वकार्यालयम्
- (घ) देवालयम्

(v) 'भवति' इति क्रियापदस्य धातुः लिखत ।

(क) भू धातुः

(ख) भु धातुः

(ग) भव् धातुः

(घ) भवत् धातुः

प्रश्न 2 चित्रं दृष्ट्वा दत्तपदानां सहायतया रिक्तस्थानानि पूरयत — (1/2x4= 2)



मञ्जूषा — उद्यानम् , पुस्तकम् , वृक्षाः , बालकौ

- (1) अस्मिन् चित्रे एकम् _____ अस्ति ।
- (2) तत्र अनेके हस्तिः _____ सन्ति ।
- (3) एकः बालकः _____ पठति ।
- (4) द्वौ _____ कन्दुकेन कीडतः ।

प्रश्न 3 मञ्जूषायां प्रदत्तं पदानाम् सहायतया मित्रं प्रति पत्रम् लिखत । (1/2x6= 3)

मञ्जूषा- आगमनस्य , ज्ञात्वा , उपस्थितिः , ज्येष्ठः ,
मासस्य , कुशलम्

नवदिल्लीतः

तिथिः 15.06.2024

प्रिय मित्र मधुरः ,

सप्रेम नमोनमः ।

अत्र [1]----- तत्रास्तु । एतद् [2]----- भवान् अतीव प्रसन्नो भविष्यति यत्

मम [3]----- भ्रातुः विवाहः अग्रिम [4]----- पञ्च तिथौ निश्चितः । भवतः

सपरिवारेण सह [5]----- अनिवार्या । अहम् भवतः [6]----- प्रतीक्षाम् करिष्यामि ।

तव प्रिय मित्रम्

नमिषः

प्रश्न 4 अधोलिखिते संवादे मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयत -

(1/2x4= 2)

मञ्जूषा - रचयामि, मातुः , किम् , चित्रम्।

हरीशः - त्वम् [1]----- करोषि ?

रमेशः - अहम् चित्रम् [2]----- ।

हरीशः - त्वम् कस्य [3]----- रचयसि?

रमेशः - अहम् मम [4]----- चित्रम् रचयामि।

प्रश्न 5 मञ्जूषायां प्रदत्तैः उचित अव्ययपदैः रिक्तस्थानानि पूरयत - (1/2x4= 2)

मञ्जूषा - किम् , अथ , च , तत्र

- (1) ----- एकः सरोवरः अस्ति ।
- (2) ----- मम जन्मदिवसः अस्ति ।
- (3) सुनीलः कबीरः ----- मित्रे स्तः ।
- (4) त्वम् ----- करोषि ?

प्रश्न 6 अधोलिखितेषु रिक्तस्थानेषु प्रकृति प्रत्ययं संयोज्य वाक्यपूर्तिं कुरुत - (1/2x2= 1)

- (1) रहीमः ----- (पद् + क्त्वा) खेलनाय गच्छति ।
- (2) तुलसी भोजनम् ----- (खाद् + क्त्वा) शयनम् करोति ।

प्रश्न 7 रेखांकित पदम् आधृत्य प्रश्नं निर्मीयताम् - (1/2x2= 1)

- (1) सत्येन वाति वायुः ।
- (2) पृथिव्याम् त्रीणी रत्नानि भवन्ति ।

प्रश्न 8 शब्दानाम् अर्थम् लिखत - (1/2x4= 2)

पौरः , बहुरत्ना , भृत्यः , वायुः

प्रश्न 9 यथायोग्यम् श्लोकांशान् परस्परं मेलनम् कुरुत - (1/2x4= 2)

- | | |
|-------------------------------|------------------------|
| (1) धनधान्यप्रयोगेषु | त्यक्तलज्जः सुखी भवेत् |
| (2) सद्भिः विवादम् मैत्रीम् च | सत्येन तपते रविः |
| (3) सत्येन धार्यते पृथ्वी | विद्यायाः संग्रहेषु च |
| (4) आहारे व्यवहारे च | नासद्भिः किञ्चिदाचरेत् |

परियोजना कार्य

प्रश्न 10 पंचतंत्र की किसी भी कहानी के एक पात्र का लकड़ी के चम्मच अथवा आइसक्रीम स्टिक की सहायता से पप्पेट बनाइए।
(5×1=5)

Subject: Mathematics**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: 10

M.M. 25

(1x2=2)

Q1) Choose the correct answer:

(i) What is the additive inverse of -6?

- (a) 0 (b) 6 (c) 1 (d) -6

(ii) What is $45 + (-55) - (-27)$ equal to?

- (a) 17 (b) -17 (c) 112 (d) 56

Q2) Fill in the following blanks:

(2)

(i) $12 \div \text{-----} = -12$ (ii) $-4 \times \text{-----} = 0$ (iii) $-3 \times 5 = 5 \times \text{----}$ (iv) $-9 \times \text{----} = -9$ **Q3) State which is greater: $(-7-8) \times 9$ or $7-(-8 \times -9)$**

(2)

Q4) (i) Is subtraction of integers commutative?

(2)

(ii) Is division of integers closed?

Illustrate your answer using examples.

Q5) An elevator is on the twentieth floor. It goes down 11 floors and then up 5 floors. Which floor is the elevator on now?

(2)

Q6) Verify the following and also name the property used:

(3)

(i) $(-445) + 315 = 315 + (-445)$ (ii) $20 \times [5 \times (-16)] = (20 \times 5) \times (-16)$

Q7) Hazel started a game of monopoly with ₹70. She had to pay ₹25 as tax and she received ₹10 as rent from one of her sites. Again, she won ₹20 by way of lottery and was then fined ₹50 for over speeding. How much money was left with her at the end of the game?

(3)

Q8) Start with the integer -8. Add -12 to it, subtract 10 from the result. Divide the result by +3 and multiply the answer by -2. What do you get?

(3)

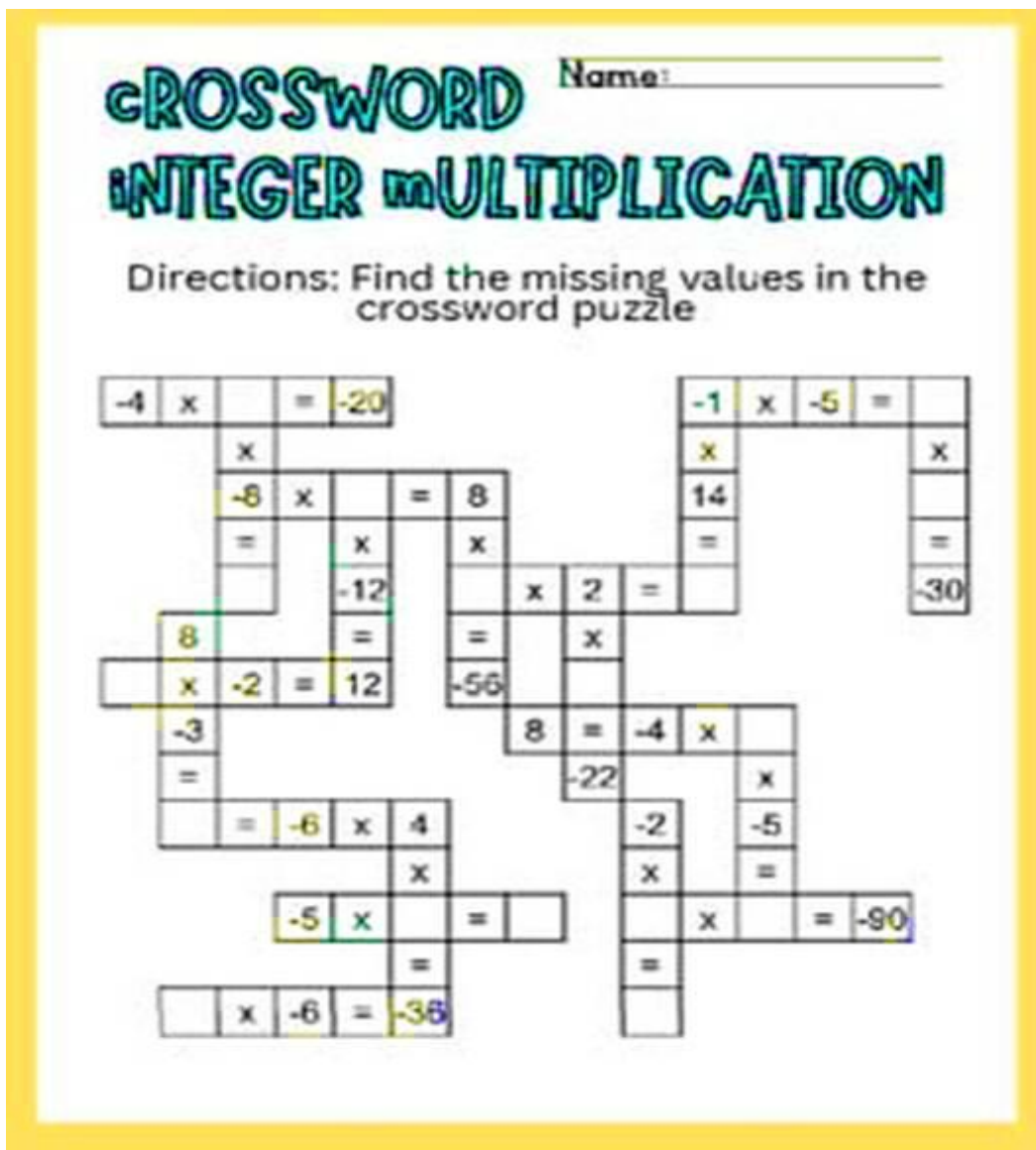
Q9) Evaluate: $[90 - (-54)] \div [12 - 3 \times (-2)]$

(3)

Activity –

Q10) Complete the following crossword puzzle based on the product of integers on a portfolio sheet.

(3)



Subject: Science

General Instructions:

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

No. of questions: 10

M.M. 25

Q1. Which of the following pairs includes only autotrophic organisms? (1)

- (a) Mushroom, Cuscuta, Bread mould
- (b) Algae, Grass, Neem
- (c) Yeast, Mango, Lotus
- (d) Cuscuta, Algae, Bread mould

Q2. What is the role of chlorophyll in the process of photosynthesis? (1)

- (a) Absorbs oxygen from the air
- (b) Traps sunlight energy
- (c) Stores food in leaves
- (d) Provides water to plants

For question 3, two statements are given- one labelled as Assertion (A) and the other labelled as Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

- (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.

Assertion (A): Plants obtain nitrogen directly from the air. (1)

Reason (R): Rhizobium bacteria convert atmospheric nitrogen into a usable form.

Q4. While grazing, cows swallow food quickly and then chew it again after a while.

- (a) What is the name of the process involved in this? (0.5+1.5=2)
- (b) How is this method of digestion different from that of humans?.

Q5. a) How do insectivorous plants obtain their nutrition? (1+1= 2)

- b) Give two examples of insectivorous plants.

Q6. Amrita observed a yellow plant without leaves growing on a green plant in her garden. The yellow plant was coiled around the host and had no chlorophyll. (1+1+1=3)



- (a) Name the yellow plant.
- (b) What type of nutrition does it exhibit?
- (c) How does it affect the host plant?

Q7. Lichens are found growing on tree trunks, rocks, and even on bare soil, as shown in the figure below. (2+1=3)

- (a) Define lichens. Why are these considered as symbiotic organisms?
- (b) How does the presence of lichens contribute to the environment?

Q8. Ravi is planning to grow crops but cannot afford chemical fertilisers. What natural method would you suggest to increase soil fertility and why? (2)

Q9. Komal saw black patches growing on a damp slice of bread kept in a corner of the kitchen. She found it interesting and wanted to know more. (1+2+1=4)

- a) Identify the organism grown on bread. What is its mode of nutrition?
- b) Name two food items commonly infected by fungi. List the conditions required for its growth.
- c) How can fungal growth be prevented?

Activity:

Q10. Take two healthy potted plants labelled as A and B. Cover plant A completely with a black cloth so that no light can enter, and place plant B in a spot with indirect sunlight. Water both plants A and B equally every day. After 3 days, carefully observe the changes in both plants and answer the following questions: (1+2+2=5)

- a) Identify the plant that shows signs of yellowing of leaves. Give a reason.
- b) Which of the two plants is likely performing photosynthesis? Justify.
- c) What change do you expect if the covered plant A is placed in sunlight after three more days

Subject: Social Science

General Instructions:

- The work should be done neatly and in a systematic way.
- 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. What is epigraphy? (1)
- Q2. What do you mean by 'Democratic Republic'? (1)
- Q3. Mention the difference between direct democracy and representative democracy? (1)
- Q4. What is hydrosphere? Why is it important for us? (2)
- Q5. How can democracy be a successful form of government? (any two points) (2)
- Q6. What do you know about chronicles? (2)
- Q7. What are the archaeological sources of the medieval period?
Mention any three of them in detail. (3)
- Q8. What has brought a change in interaction between humans and their surroundings? (3)
- Q9. Why do you think people in a dictatorship feel restricted or forcefully controlled? (5)
- Q10. Discuss major components of the Natural Environment with the help of a G.O.
Give examples for each. (5)

Activity:



Topic: Democracy Around the World

Do this project on A3 sheet

Choose 2-3 different democratic countries (besides India) and research their systems of government, how elections are held, and the rights their citizens have.

Create a comparative presentation highlighting the similarities and differences in their democratic processes.

Use visuals: Pictures, drawings, charts, and maps can make your project more interesting.

Subject: Computer Science

General Instructions:

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

No. of questions: 10

M.M. 25

Convert the following decimal values into binary codes.

(2x5=10)

- 1) $(25)_{10}$
- 2) $(64)_{10}$
- 3) $(125)_{10}$
- 4) $(255)_{10}$
- 5) $(79)_{10}$

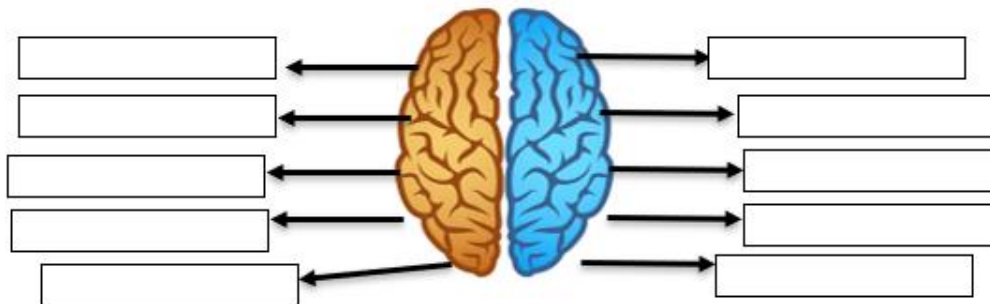
Convert the following binary codes into decimal values.

(2x5=10)

- 6) $(101)_2$
- 7) $(1100)_2$
- 8) $(10011)_2$
- 9) $(100101)_2$

10) List any 5 data processed by the left and right part of the human brain.

(1x5=5)



11) Activity:

Note:

Open the MS Word document and list all the practical questions.
Capture a screenshot (snip) of the MakeCode Arcade programming workspace along with the game simulator.
Paste the screenshot below each corresponding practical question.
Save the document as a PDF file.
Upload the PDF under the ASSIGNMENT section in Microsoft Teams.

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

Practical 1: Calculate the area of triangle ($a=0.5*b*h$)

Practical 2: Calculate the simple interest ($si=(p*r*t)/100$)