



MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI-110062
CLASS- VI
WORKSHEET – JUNE

ENGLISH

1. Read the sentences carefully, underline the pronouns, and state their kinds.

- a) Who will come to my party?
- b) Neither of them won the game.
- c) Somebody stole my storybook.
- d) Each painting is a masterpiece.
- e) I have a box of chocolates for them.
- f) Have you got a bike?
- g) The boy who helped me has a scar.
- h) That is the bed which has a broken leg.
- i) You should write slowly and neatly.

2. Choose the correct answer from the given alternatives:

- a) Father Wolf woke up at – (i) six o' clock (ii) seven o' clock (iii) eight o' clock.
- b) Tabaqui was the name of a – (i) jackal (ii) wolf (iii) tiger.
- c) On that night the tiger had hunted a – (i) man (ii) bullock (iii) buck.

3. Identify which of the following statements are True and which are false. Give supporting statements for each of your answers.

- a) Father Wolf woke up early in the morning. []
- b) Indian wolves do not like jackals for their mischievous nature. []
- c) Tabaqui did not find any food at the wolves' den. []
- d) The wolf family was all pleased to hear the compliments. []
- e) Sher Khan in the forest areas twenty miles away from the wolves. []

हिंदी

प्रश्न 1. निम्नलिखित प्रश्नों के उत्तर लिखिए-

(क) सूची I के साथ सूची II का मिलान कीजिए-

I सूची II सूची

a. असुर I. अनल

b. आग II. दानव

c. अश्व III. पाहुन

d. अतिथि IV. तुरंग

(ख) 'मृदुल' का विलोम शब्द है-

(i) कठिन

(ii) खराब

(iii) रुक्ष

(iv) कठोर

(ग) 'ऋणात्मक' का विलोम शब्द है-

(i) धनात्मक

(ii) रिणात्मक

(iii) मानात्मक

(iv) अनात्मक

(घ) नीचे दिए गए अनेक शब्दों के लिए उचित एक शब्द पर सही का चिह्न लगाइए-

(अ) जो कभी न मरे

(i) अमर

(ii) अजर

(iii) सदैव

(iv) सदय

(ब) जहाँ जाना कठिन हो

(i) दुर्गम

(ii) दुष्कर

(iii) सुगम

(iv) कुमार्ग

(ङ) कोष्ठक में लिखे शब्दों में से सही शब्द चुनकर वाक्य पूरे कीजिए-

(अ) (i) राम दशरथ के _____ थे। (पुत्र, बालक)

(ii) यह _____ शैतान है।

(ब) (i) आपकी _____ से मुझे नौकरी मिल गई। (दया, कृपा)

(ii) हमें दीन-दुखियों पर _____ करनी चाहिए।

संस्कृत

1. दी गई धातुओं के अर्थ लिखिए ।

(क) पत्

(ख) क्रीड्

(ग) स्था (तिष्ठ)

(घ) धाव्

(ङ) वद्

(च) हस्

2.

निम्नलिखितधातुभिः सह तेषां हिन्दीपर्यायं मेलयत।
निम्नलिखित धातुओं के साथ हिंदीपर्याय को मिलाइए।
(Match the following roots to their meaning in Hindi.)

(क) क्रीड्

बोलना

(ख) घ्रा (जिघ्र)

पकाना

(ग) स्था (तिष्ठ)

पीना

(घ) तृ (तर्)

खेलना

(ङ) पच्

बैठना

(च) पा (पिब्)

तैरना

(छ) वद्

सूँघना

3. संख्यावाची शब्दाः लिखत ।

(क) 21

(ख) 40

(ग) 25

(घ) 42

(ङ) 36

4. पञ्च पशूनां नामानि लिखत ।

5. गम् (गच्छ) धातु लट् लकारस्य रूपं लिखत ।

MATHEMATICS

Q1. Write all factors of each of the following numbers:

(i) 24 (ii) 300 (iii) 225

Q2. Write first five multiples of each of the following numbers:

(i) 12 (ii) 36 (iii) 18

Q3. Write all prime numbers between:

(i) 20 and 40 (ii) 80 and 100

Q4. Express each of the following numbers as the sum of two odd primes:

(i) 45 (ii) 39 (iii) 64

Q5. Express each of the following numbers as the sum of three odd primes:

(i) 63 (ii) 53 (iii) 15

Q6. Find prime factorization of each of the following numbers:

(i) 1331 (ii) 1024 (iii) 148

Q7. Find the HCF of the following numbers using prime factorization method (i) 72, 144 and 252 (ii) 60 and 72 (iii) 225, 1125 and 5625

Q8. Determine the LCM of the given numbers:

(i) 48, 72 and 84 (ii) 28, 36, 45 and 60 (iii) 12, 24, 36 and 54

Q9. The LCM and HCF of two numbers are 6055 and 173 respectively. If one of the numbers is 267, find the other.

Q10. The LCM of two numbers 525 and 945 is 4725. Find their HCF.

SCIENCE

Q1. Choose the correct option.

1. Which of the following materials are not lustrous?
 - a. Gold
 - b. Silver
 - c. Diamond
 - d. wood

2. Students were asked to examine different materials and substances. These were butter paper, aluminium foil, cardboard, white cotton cloth, frosted glass and water. Which among the following is a correct observation?
 - a. Only cardboard is opaque.
 - b. Only water is transparent.
 - c. Butter paper and water are translucent.
 - d. Aluminium foil, frosted glass and cotton cloth are opaque.

3. The property of a substance by which it dissolves in water is _____.
 - a. Transparency
 - b. Hardness
 - c. Floatation
 - d. Solubility

Q2. Define the following.

- a. Classification
- b. Solvent
- c. Solute
- d. Density

Q3. A frying pan made of aluminium is provided with a bakelite handle. Give reason.

Q4. Why do some objects float and some sink in water? Explain.

Q5. You are provided with the following materials-

Turmeric, honey, mustard oil, water, glucose, rice flour and groundnut oil.

Make any three pairs of substances where one substance is soluble in the other and any three pair of substances where one substances remain insoluble in the other substances.

Q6. Differentiate between the following:

- a. Insulators and conductors
- b. Transparent and opaque materials

SOCIAL SCIENCE

Q1. Read the passage and answer the following questions.

The first empire in history is widely considered to be the Akkadian Empire, which was established by Sargon the Great in ancient Mesopotamia (modern-day Iraq) around 2334 BCE. Sargon united various city-states and expanded his empire through military conquests, creating a vast territory that stretched from the Persian Gulf to the Mediterranean Sea. He established a standardized system of weights, measures, and currency, and promoted trade and cultural exchange. The Akkadian Empire lasted for over a century and laid the foundation for subsequent empires in the region.

1. Who founded the Akkadian Empire?
A) Sargon the Great
B) Hammurabi
C) Ashurbanipal
D) Tiglath-Pilese
2. Where was the Akkadian Empire located?
A) Ancient Egypt
B) Ancient Mesopotamia
C) Ancient Greece
D) Ancient Rome
3. What was one of Sargon's achievements?
A) Building the Great Pyramid
B) Establishing a standardized system of weights and measures
C) Discovering the wheel
D) Writing the Epic of Gilgamesh
4. How long did the Akkadian Empire last?
A) Over 500 years
B) Over 100 years
C) Over 50 years
D) Over 20 years
5. What was the extent of the Akkadian Empire's territory?
A) From the Nile River to the Euphrates River
B) From the Persian Gulf to the Mediterranean Sea
C) From the Tigris River to the Indus River
D) From the Black Sea to the Red Sea

Q2. Read the following statements and tick the correct answers.

1. Statement 1. Ashoka was one of the worst emperors in the history of India

Statement 2. Ashoka inherited a huge empire from his father Bindusara.

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|---------------------------------|----------------------------------|
| a) Both the sentences are true. | b) Both the sentences are false. |
| c) A false and B true. | d) B false and A true. |

2. Statement 1 – A civilization needs proper administration and organization.

Statement 2- The cities of the Harappan civilization were not well planned.

- | | |
|---------------------------|----------------------------|
| a) Both A and B are true. | c) Both A and B are false. |
| b) A is true. B is false. | d) A is false. B is true. |

3. Statement 1- Indus valley civilization is also known as Harappan civilization.

Statement 2- It is because Harappa was the first of its sites to be excavated

- | | |
|---------------------------|----------------------------|
| a) Both A and B are true. | c) Both A and B are false. |
| b) A is true. B is false. | d) A is false. B is true |

Q3. Fill in the blanks.

- a) _____ was a masterpiece of Harappan civilization.
- b) _____ is situated in the Rann of Kutch.
- c) _____ Was situated outside the citadel.
- d) The two famous Mauryan rulers were _____ and _____.
- e) Ashoka was the son of _____.

Q4. Who I am

- a) I am the son of Bindusara. _____
- b) I am the grand son of Chandragupta _____.
- c) I provided the guidance to Chandragupta Maurya. _____

Q5. Define the terms.

- a) Citadel
- b) Harappa
- c) Mohenjo Daro
- d) Ashoka's Dhamma

INFORMATION TECHNOLOGY

A. Multiple Choice Questions:-

1. To sort the numbers, Excel provides which of the following options
 - (a) Sort Smallest to Largest
 - (b) Sort Largest to Smallest
 - (c) Both a and b

2. Using _____ option sorting can be done on multiple fields.
 - (a) Custom sort
 - (b) Number sorting
 - (c) Date sorting

3. To sort the dates, Excel provides which of the following options
 - (a) Sort Oldest to Newest
 - (b) Sort Newest to Oldest
 - (c) Both a and b

4. In conditional formatting drop-down, which option needs to be selected to edit rules
 - (a) Manage rules
 - (b) New rule
 - (c) Clear rule

5. On basis of number values, which option is provided by filter feature in MS Excel
 - (a) Ends with
 - (b) Begins with
 - (c) Not equal to

B. Fill in the blanks:

1. For complete control of sorting the data, we need the _____ option.
2. _____ refers to separating the desired data from the whole set.
3. Arranging the data either in ascending or descending order is called _____.
4. The _____ feature allows us to specify the cell formatting which should be applied if the cell contains a specific value.
5. Click on the _____ button to add another level of sorting.

C. Answer the following questions:

1. What do you mean by data sorting? Write down its benefits.
2. Describe different ways to filter the data in MS Excel.
3. Explain conditional formatting with examples.
4. Specify different parameters to calculate subtotal in MS Excel.
5. Explain Number and Text Filter options in MS Excel.

ARTIFICIAL INTELLIGENCE

1. Define Artificial Intelligence (AI) in your own words.
2. List three major categories of AI applications.
 - a. _____
 - b. _____
 - c. _____
3. Explain why AI is becoming increasingly important in today's world.
4. Choose two AI applications from the list below. Describe each briefly and mention one benefit of using them.

a. Natural Language Processing (NLP):

- Description:

- Benefit:

b. Image Recognition:

- Description:

- Benefit:

c. Virtual Assistants:

- Description:

- Benefit:

d. Recommendation Systems:

- Description:

- Benefit:

e. Autonomous Vehicles:

- Description:

- Benefit:

5. Read the following case study and answer the questions:

Case Study: "How AI is Revolutionizing Healthcare"

AI technologies are transforming healthcare by improving diagnostics and patient care. One example is IBM Watson, which analyzes vast amounts of medical data to assist doctors in making accurate diagnoses.

- How does AI improve diagnostics in healthcare?

- What role does IBM Watson play in this transformation?

6. Discuss the ethical considerations of using AI in everyday applications. Consider issues such as privacy, bias, and job displacement.

7. Choose one AI application that interests you the most (from Part 2) and research a specific example or company that uses this technology. Summarize your findings and discuss its impact on society.

8. Which of the following is NOT an example of AI?

- a) Voice assistants like Siri and Alexa
- b) Self-driving cars
- c) Microwave ovens
- d) Chess-playing computers

9. What is the main purpose of AI?

- a) To make computers think like humans
- b) To make computers run faster
- c) To make computers smaller in size
- d) To make computers cheaper to buy

10. Which of these tasks can AI help with?

- a) Cooking food
- b) Cleaning rooms
- c) Playing music
- d) Sorting data