MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI-110062
WORKSHEET-JANUARY
CLASS-VII

ENGLISH

I. Choose the correct option. (CHAPTER-BALTO TO THE RESCUE)

a) Where was the medicine supposed to be delivered?

i) Rome   ii) Nome iii) Point Safety iv) Bluff

b) Medicine for which disease had to be delivered?

i) diarrhoea ii) dysentery iii) diphtheria iv) flu

c) Where had the medicine originally started from?

i) Rome   ii) Nome iii) Point Safety iv) Bluff

d) How far was the next stop from where Gunner and Charlie sat?

i) thirty miles   ii) thirty-two miles   iii) forty miles   iv) forty-two miles

e) What is a blizzard?

i) a strong with lots of snow ii) a strong wind iii) a strom lots of rain iv) a violent

II. **Choose the correct option. (CHAPTER-The Adventure of Blue Carbuncle)**

a) Who has found the hat?

i) Sherlock Holmes ii. Dr Watson iii) Peterson   iv)Henry Baker

b) What did the initials H.B on the hat stands for?

i) Henry Baker   ii) Harry Baker iii) Harold Baker iv) Harry Baker

c) How did Sherlock Holmes infer that the owner of that had no gaslight at home?

i) He had not bought a new hat in three years.

ii) By the looks of the hat , it looked that it belonged to a rich man

iii) The hat had tallow of stains on it.

iv) There was fluffy brown dust on the hat.

d) How did Sherlock Holmes concluded that the hat belonged to a married man?

i) He wore an expensive hat.   ii) He had a big skull

iii) He went to a barber to maintain his hair   iv) He got a Goose home for Thanksgiving.

e) Who did the blue the carbuncle belong to?

i) The count of Monte Cristo   ii) The duchess of Monte Cristo

iii) The countess of Morcar   iv) The duchess of Morcar

हिंदी

प्रश्न 1. निम्नलिखित प्रश्नों के उत्तर विकल्पों के माध्यम से चुनिए -

(i) सूरदास के पदों में किस भगवान की भक्ति का वर्णन है?

(ए) भगवान शिव   (बी) भगवान विष्णु   (सी) भगवान गणेश   (डी) भगवान कृष्ण

(ii) सूरदास के पदों में किस भाषा का प्रयोग हुआ है?

(ए) संस्कृत   (बी) हिंदी   (सी) ब्रज भाषा   (डी) उर्दू

(iii) सूरदास के पदों में भगवान कृष्ण के किस रूप का वर्णन है?

(ए) बाल कृष्ण   (बी) युवा कृष्ण   (सी) वृद्ध कृष्ण   (डी) रास लीला कृष्ण

(iv) आधार कार्ड का मुख्य उद्देश्य क्या है?

(ए) मतदान के लिए पहचान पत्र के रूप में

(बी) बैंक खाता खोलने के लिए पहचान पत्र के रूप में

(सी) सरकारी योजनाओं का लाभ उठाने के लिए पहचान पत्र के रूप में

(डी) उपरोक्त सभी

((v) आधार कार्ड के लिए आवश्यक दस्तावेज क्या हैं?

(ए) जन्म प्रमाण पत्र

(बी) मतदान पहचान पत्र

(सी) राशन कार्ड

(डी) उपरोक्त सभी

(vi) आधार कार्ड के लिए आवेदन करने की आयु सीमा क्या है?

(ए) 18 वर्ष   (बी) 15 वर्ष   (सी) 5 वर्ष

(डी) कोई आयु सीमा नहीं

(vii) आधार कार्ड के लिए आवेदन करने के लिए क्या आवश्यक है?

(ए) ऑनलाइन आवेदन   (बी) ऑफलाइन आवेदन

(सी) दोनों   (डी) कोई नहीं

(viii) आधार कार्ड के लाभ क्या हैं?

(ए) सरकारी योजनाओं का लाभ उठाना

(बी) बैंक खाता खोलना

(सी) मतदान के लिए पहचान पत्र

(डी) उपरोक्त सभी

संस्कृत

प्रश्न 1. अधोलिखितान् गद्यांशान् पठित्वा प्रश्नानाम् उत्तराणि लिखत।

संस्कृत भाषा देवानां भाषा अस्ति। एषा भाषा सर्वसाम् भारतीया भाषाणाम् जननी अस्ति। संस्कृतभाषायां एव अस्माकं इतिहासः अस्माकं भूतः भविष्यं च सर्वं सन्निहितम् अस्ति। संस्कृत सरल भाषा सुबोधा चास्ति। कालिदासः वाणः, दण्डी, माघः, आदि काव्यः तु प्रसिद्धाः सन्ति। आदिग्रन्थः 'रामायणम्' संस्कृत भाषायां अस्ति। संस्कृतभाषायम् एव अस्माकं संस्कृतिः अस्माकं भविष्यं च अस्ति।

(क) देवानां भाषा का अस्ति ?

(ख) एषा भाषा कस्या जननी अस्ति ?

(ग) संस्कृत भाषा कीदृशं अस्ति ?

(घ) संस्कृतस्य प्रसिद्धाः काव्यः के सन्ति ?

प्रश्न 2. निम्न संस्कृत संख्यावाचक शब्दाः लिखत।

(क) 55

(ख) 70

(ग) 78

(घ) 96

(ङ) 98

प्रश्न 3. साधु /नदी शब्द रूप लिखत।

प्रश्न 4. पञ्च पुष्पाणि नामानि लिखत।

प्रश्न 5. चित्रं दृष्ट्वा मञ्जूषायाः सहायतया पञ्च संस्कृत-वाक्यानि लिखत-

(उद्यानं ,बालकाः,खगाः,वृक्षाः,कन्दुकेन,पुष्पाणि)

MATHEMATICS

1. Simplify the expression: $2^3 \times 2^4$.

2. Evaluate the expression: $(3^2)^3$

3. Simplify the expression: $(2^4)^3$

4. Evaluate the expression: $5^2 \times 5^3$

5. Simplify the expression: $(4^2)^3 \times 4^2$

6. Find the prime factorization of 36.

7. Find the prime factorization of 48.

8. Write the number 456,789 in standard form.

9. Write the number 0.000456 in standard form.

10. Write the number 987,654,321 in standard form.

11. Write the number 0.00009876 in standard form.

12. Write the number 123,456 in standard form.

SCIENCE

- Why is it necessary to treat wastewater before releasing it into water bodies?
- Imagine a town without a proper sewage treatment system. What environmental and health problems could arise from untreated wastewater being released into the environment?
- How does the use of biological organisms in secondary treatment help clean wastewater?
- Discuss the impact of wastewater on aquatic life if not treated properly.
- Why is it important to reduce the amount of harmful chemicals, such as detergents and oils, in household wastewater?
- The side mirror of a scooter got broken. The mechanic replaced it with a plane mirror. Mention any inconvenience that the driver of the scooter will face while using it.
- Mention the type of image
  (a) which can be formed on the screen.
  (b) which cannot be formed on the screen.
- Explain the term lateral inversion.
- Name the following:
  a. Tiny pores on the surface of leaves for exchange of gases.
  b. An organism with a tracheal system.
  c. Skeletal structures surrounding the chest cavity.
  d. An aerobic organism .
  e. The openings through which we inhale.
  f. The anaerobic organism used in production of beer and wine.
  10. Draw neat and labeled diagram of the human respiratory system.
  11. Answer the following
  a. Name the artery which carries de-oxygenated blood.
  b. Name the plant tissue which transports water & minerals
  c. Name the plant tissues which transports food from leaves to different parts of plants
  d. Aquatic animals like fishes excrete body wastes as _____
  e. Animals like snakes excrete semi-solid white coloured compound called _____
  f. What is the average heartbeat of an adult human?
  g. Name the instrument which is used by doctor to measure rate of heart beat
  h. Name the vein which carries oxygenated blood
  i. Name the chamber of heart which receives de-oxygenated blood from whole body
  j. Name the chamber of heart which pumps oxygenated blood to whole body
  k. Name the process of cleaning the blood of a person by separating the toxic waste products using artificial kidney machine
  l. Name the instrument that helps to measure blood pressure.
  m. What is the main filtration unit in the kidney?

SOCIAL SCIENCE

A. Fill in the blanks.

1. A wholesaler buys goods from the producers and sells them to

_____.

2. Neighbourhood shops sell their goods at _____.

3. A _____ market is set up once a week in a particular area.

4. Shifting agriculture is also called _____ and _____

agriculture.

5. _____ tree is found in mangrove forests.

6. _____ and _____ are important nomadic tribes of the Sahara Desert.

7. Ladakh is connected to the Kashmir Valley by the National Highway A1, a road that passes through the _____pass.

B. Match column A with column B.

Column A   Column B

1. pashmina   a) stream

2. kiang   b) goat

3. Hemis   c) Tibetan wild ass

4. Wadi   d) monastery

5. Jaganath Temple   e) Puri

C. State whether the following statements are true or false.

1. Wholesalers work in the fields to produce goods.

2. Retailers sell the goods in bulk to the customers.

3. Present-day consumers also have the option of buying goods from an

online store.

4. Peru does not lie within the Amazon basin.

5. Tea plantations are found in hilly slopes of Assam.

6. Neem and coconut trees grow well in the Sahara Desert.

7. The Karakoram Range is located towards the north of Ladakh.

D. Answer the questions in brief.

1. What is the location of Sahara Desert?

2. Describe the location and extent of Ladakh.

3. Where is the Amazon basin located?

4. What is a market?

5. What are weekly markets?

6. What is the credit system in a neighbourhood market?

ARTIFICIAL INTELLIGENCE

Multiple Choice Questions (MCQs):
- Which of the following is NOT a common application of AI?
  - a) Virtual assistants like Siri
  - b) Recommendation systems on Netflix
  - c) Traditional calculators
  - d) Self-driving cars
- What is a key benefit of AI in education?
  - a) Replacing teachers entirely
  - b) Creating personalized learning experiences
  - c) Making all subjects equally difficult
  - d) Eliminating the need for textbooks
- AI is being used to address which of the following global challenges?
  - a) Climate change
  - b) Disease diagnosis
  - c) Poverty
  - d) All of the above
- What is a potential ethical concern related to AI?
  - a) Increased job opportunities
  - b) Bias in algorithms
  - c) Improved healthcare
  - d) Enhanced creativity
- In the future, how might AI impact the job market?
  - a) Eliminating all jobs
  - b) Creating new job roles and changing existing ones
  - c) Making all jobs easier
  - d) Making all jobs the same

Short Answer Questions:
- Describe one way AI is currently used in healthcare.
- Explain how AI-powered recommendation systems work.
- What are some skills that will be important for humans to develop in a world increasingly influenced by AI?
- Discuss one potential benefit and one potential challenge of using AI in smart cities.
- Imagine you are developing an AI application. What is one ethical consideration you would need to keep in mind?

INFORMATION TECHNOLOGY

Q1. Choose the correct answer from the options given with each of the following questions.

1. Which of the following apps use the processing power of the web server on which the website is hosted?

a. Web App

b. Hybrid App

c. Native App

d. All of these

2. Select the app which is integrated with the operating system of the mobile device as well as theweb based services.

a. Web App

b. Hybrid App

c. Native App

d. All of these

3 . Which of the following is/are the key part of App Inventor interface?

a. Designer

b. Blocks

c. Both a & b

d. None of these

4. Which of the following parts of App Inventor contains all the components which make the interface of the app?

a. Menu bar

b. Tool bar

c. Viewer

d. Palette

5. Which of the following is the basic form of data to describe an event or object?

a. Structured data

b. Unstructured data

c. Abstract data

d. Semi-structured data

Q6. Give two examples each of structured semi- structured and unstructured data.

Q7. Write any three benefits of data science.

Q8. What is an app?

Q9. How is a hybrid app different from web app?

Q10. What is the use of HR tag?