



MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI-62
WORKSHEET – JANUARY (2024-25)
CLASS – VIII

ENGLISH

A. Use ‘should/must/ought to’ appropriately in the following sentences.

1. The students..... respect their teacher.
2. Every student..... carry his or her i-card during the examination.
3. You..... keep away from bad habits like teasing girls, copying in exams etc.
4. Madhuri seems to be quite exhausted. She..... take some rest.
5. What you are doing these days is a wild goose chase. You..... rather concentrate on your own project.

B. Change these active voice sentences to passive voice:

1. The artist painted a vibrant and captivating masterpiece.
2. The firefighters rescued the family from the burning building.
3. The author wrote a compelling novel that became a bestseller.
4. She is going to deliver the letters.
5. She will deliver the letters.

C. Your father bought a new car one day. You all were very excited. He promised to take you to visit your grandparents coming Sunday. Share your experience, in the form of a diary entry describing your journey by a car.

D. Write a letter to a government official urging them to take action on a social issue that you are passionate about.

E. Design a poster to promote awareness about global warming and climate change.

हिंदी

1. नारद जी ने भगवन विष्णु से क्या प्रश्न पूछा? (प्रियतम)
2. किसान दिन भर में कितनी बार ईश्वर को याद करता था? (प्रियतम)
3. स्वच्छ भारत अभियान क्या है? (स्वच्छ भारत अभियान)
4. गाय का नाम क्या रखा गया? (गौरा)
5. लालमणि का रूप रंग कैसा था? (गौरा)
6. शास्त्रों में झूठ बोलने के बारे में क्या लिखा है? (झूठ बराबर तप नहीं)
7. दिल्ली स्टेशन पर उतरकर लेखक के होश फाख्ता क्यों हो गए? (झूठ बराबर तप नहीं)
8. श्याम कहाँ जाकर नौकरी करने लगा? (स्वतंत्रता से बढ़कर कुछ नहीं)
9. श्याम ने क्या पहना हुआ था? (स्वतंत्रता से बढ़कर कुछ नहीं)
10. दीनानाथ का पड़ोसियों से मन-मुटाव क्यों हुआ? (कितनी ज़मीन)
11. अपने घोड़े के लिए दाना लेने आये सौदागर ने दीनानाथ को क्या बताया? (कितनी ज़मीन)
12. बीरबल से दरबारी क्यों चिढ़ते थे? वे उन्हें क्या कहकर भेजा और क्यों? (योग्यता की परीक्षा)
13. राजा भोज ने कालिदास से क्या प्रश्न पूछा? (राजा भोज)
14. लेखक ने मारिया के दस रूबल क्यों मारे?(सीख)
15. लेखक को क्रोध क्यों आया?(सीख)

व्याकरण

16. 'अप' और 'बद' उपसर्ग से दो-दो शब्द बनाएं
17. वाक्यों में क्रिया शब्द रेखांकित करें-
 - i. रीमा बाजार से सब्जी लाई है।
 - ii. गंगा बाहर से अभी-अभी आई है।
18. काल के मुख्य भेदों के नाम लिखिए।
19. वाक्य पढ़कर वाच्यों का भेद लिखिए-
 - i. सीता गाना गाती है।
 - ii. राम द्वारा सेब तोड़ा गया।
 - iii. कुसुम से चला नहीं जाता।
20. संकेत अनुसार उत्तर दें-
 - i. गीता ----- चलती है (क्रियाविशेषण शब्द से वाक्य पूरा करें)
 - ii. पेड़ ----- बन्दर बैठा है। (सम्बन्धवाचक शब्द से वाक्य पूरा करें)
 - iii. मीना ----- गरिमा फल लेने जा रहे हैं। (समुच्चयबोधक शब्द से वाक्य पूरा करें)
 - iv. ----- कितना मनमोहक दृश्य है। (विस्मयादिबोधक शब्द से वाक्य पूरा करें)

संस्कृत
दत्त कार्य

प्रश्न 1. अधोलिखितान् गद्यांशान् पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

एकदा एकः सिंहः वनस्य मध्ये गत्वा निझरि जलं पिबति स्म। तस्य समीपे एकः काकः वृक्षे उपविश्य तं सिंहं पश्यति स्म। काकः चिन्तयति, "एष सिंहः बलवान् अस्ति। मम मित्रं यदि भवेत्, तर्हि अन्येभ्यः पक्षिभ्यः मां कोऽपि कष्टं न ददाति।" ततः सः सिंहं प्रति गत्वा उवाच, "हे वनराज! अहं ते मित्रं भवितुम् इच्छामि।" सिंहः काकस्य साहसं दृष्ट्वा हसति स्म तथा च उवाच, "भवतु, त्वं मम मित्रं।" तस्मात् दिनात् काकः च सिंहः च परस्परं मित्रे अभवेताम्।

1. गद्यांशे कः निझरि जलं पिबति स्म?
2. काकः किं चिन्तयति?
3. सिंहः काकं किं प्रत्युत्तरं ददाति?
4. गद्यांशे मित्रयोः नामे लिखत।
5. 'काकः' शब्दस्य अर्थं हिंदी भाषायाम् लिखत ।

प्रश्न 2. निम्न संस्कृत संख्यावाचक शब्दाः लिखत ।

- (क) 56
(ख) 71
(ग) 80
(घ) 99
(ङ) 100

प्रश्न 3. गुरु /नदी शब्द रूप लिखत।

प्रश्न 4. सप्त दिवसानाम् नामानि लिखत।

प्रश्न 5. मञ्जूषायाः सहायतया संवाद पूर्ण्यतु ।

(विद्यालयं, कथं, मिलामः, श्याम, कुत्र)

रामः नमः

श्यामः नमः राम। कथं अस्ति?

रामः अहं कुशल अस्मि। त्वं असि?

श्यामः: अहं अपि कुशल अस्मि। त्वं कुत्र गच्छसि?

रामः: अहं विद्यालयं गच्छामि। त्वम् गच्छसि?

श्यामः: अहं अपि गच्छामि।

रामः: विद्यालये मिलावः।

श्यामः: अवश्यम्। शीघ्रं ।

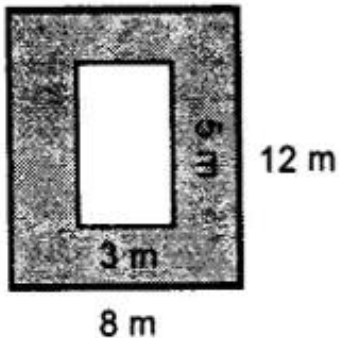
MATHEMATICS

1. The length and breadth of a rectangular plot are 900 m and 700 m respectively. If three rounds of fence is fixed around the field at the cost of Rs 8 per meter, the total amount spent is:

- (A) Rs 768
- (B) Rs 7680
- (C) Rs 76800
- (D) Rs 768000

2. The area of the shaded region is:

- (A) 96 sq. m
- (B) 15 sq. m
- (C) 81sq. m
- (D) 111 sq. m



3. The difference between the length and breadth of a rectangle is 23 m. if perimeter is 206 m, then the area is:

- (A) 1520sq. m
- (B) 2520 sq. m
- (C) 2420 sq. m
- (D) None of these

4. The perimeter of a trapezium is 52 cm and its non-parallel sides are each equal to 10 cm and its altitude is 8 cm. its area is:

- (A) 128 cm²
- (B) 112 cm²
- (C) 118 cm²
- (D) 124 cm²

5. If the ratio of circumference of two circles is 4 : 9, the ratio of their area is:

- (A) 9:4
- (B) 16:81
- (C) 4:9
- (D) 2:3

6. A wire bent in the form of a circle of radius 42 cm is cut and again bent in form of a square. The ratio of the region enclosed by the circle and the square in the two cases is given by:

- (A) 11:22
- (B) 21:33
- (C) 22:33
- (D) 14:11

7. Three cubes whose edges are 3 cm, 4 cm, and 5 cm respectively are melted to form a single cube. Find the surface area of the new cube.

- (A) 210 cm^2
- (B) 213 cm^2
- (C) 224 cm^2
- (D) 216 cm^2

8. From one corner of a square of side 8 cm, a small square of side 1 cm is cut off. What is the perimeter of the remaining figure?

- (A) 28 cm
- (B) 30cm
- (C) 32 cm
- (D) 34 cm

9. Area of a trapezium is 91 sq. cm and its height is 7 cm. if one of the parallel sides is longer than the other side by 8 cm, the length (in cm) of the smaller side is:

- (A) 6
- (B) 7
- (C) 9
- (D) 17

10. The moon diameter is approximately one fourth of the diameter of the earth. Volume of moon is what fraction the volume of earth:

- (A) $1/64$
- (B) $1/8$
- (C) $1/4$
- (D) None of these

SCIENCE

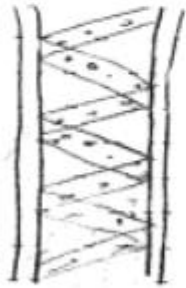
Q1. Identify the class of microorganisms to which the following organisms belong.



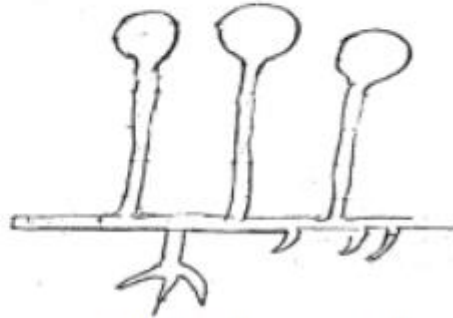
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Q2. Complete the following table.

Human Disease	Casual Organism	Mode of Transmission
Measles	Air
Typhoid	Bacteria
Malaria	Mosquito
Polio	Virus
Tuberculosis	Air

Q3. Fill in the blanks:

- i) Conversion of sugar into alcohol is called _____.
- ii) Atmosphere has _____% of nitrogen gas
- iii) Yeast produces _____ gas during respiration.
- iv) During Pasteurization, milk is heated upto _____ 0 c for _____ secs.
- v) Which organism converts atmospheric nitrogen into nitrogenous compounds.
.....

vi) Which gas is fixed by lightning?

Q4. Draw nitrogen cycle.

SOCIAL SCIENCE

I Multiple choice questions

1. Which of the following is considered a public facility?
 - a) Shopping malls
 - b) Private hospitals
 - c) Railways
 - d) Five-star hotels
2. The Human Development Index (HDI) is calculated based on which of the following factors?
 - a) Population growth, birth rate, and death rate
 - b) Income, education, and life expectancy
 - c) Industrial growth, GDP, and exports
 - d) Natural resources, land area, and literacy rate
3. The Quit India Movement was launched in:
 - a) 1920
 - b) 1930
 - c) 1942
 - d) 1947
4. What does the term “Brain Drain” refer to in the context of human resources?
 - a) Increased literacy rate
 - b) Migration of skilled professionals to other countries
 - c) Population explosion in urban areas
 - d) Expansion of healthcare facilities

5. Which organization is primarily responsible for ensuring clean drinking water as a public facility in India?

- a) NITI Aayog
- b) Ministry of Finance
- c) Ministry of Jal Shakti
- d) Reserve Bank of India

II Assertion and reasoning questions answers

Directions: For the following questions, choose the correct option:

A – Both A (Assertion) and R (Reason) 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.

1. Assertion (A): Public facilities like water, sanitation, and healthcare should be accessible to all.

Reason (R): Only the wealthy can afford these services, so the government does not need to provide them to the poor.

2. Assertion (A): The population of a country is an important resource for its development.

Reason (R): A larger population always leads to higher economic growth.

III Short questions answers

- 1. Why is investment in human resources important for the development of a nation?
- 2. Mention three major challenges in providing public facilities to people in India.
- 3. Explain the role of Mahatma Gandhi in the Non-Cooperation Movement.
- 4. Why is plain areas highly populated as compared to the desert and mountains?
- 5. What is Salt Satyagraha?

IV Long questions answers

- 1. Describe the importance of public facilities and explain how their unequal distribution affects different sections of society.
- 2. How did the Revolt of 1857 lay the foundation for the later stages of the Indian freedom struggle?

3. Discuss the factors affecting the distribution of population in India.

V High order thinking skill questions answers

Sustainable Development Goal 6 (SDG 6) focuses on ensuring availability and sustainable management of water and sanitation for all.

- Discuss the challenges India faces in achieving this goal.
- Suggest measures the government and individuals can take to improve access to clean water and sanitation.

INFORMATION TECHNOLOGY (IT)

Q1. What is a loop in Python? Explain the difference between a `for` loop and a `while` loop.

Q2. Write a Python program using a `for` loop to print the numbers from 1 to 10.

Q3. Write a Python program using a `while` loop to print all the even numbers between 1 and 20.

Q4. Write a Python program using a `for` loop to print the sum of all numbers from 1 to 100.

Q5. What is a string in Python? Write an example of how you can assign a string to a variable and print it.

Q6. Write a Python program to print the length of the string "Hello World".

Q7. What is the difference between for loops and a while loop in python?

Q8. How can you assign a string to a variable in python?

Q9. What function would you use to find the length of a string in python?

Q10. How can you convert a string to uppercase in python?

ARTIFICIAL INTELLIGENCE

Part 1: Multiple Choice Questions (Choose the best answer)

1. Which of the following best describes AI ethics?
 - a) Building the fastest and most powerful AI systems.
 - b) Ensuring AI systems are developed and used responsibly and fairly.
 - c) Writing complex computer code for AI.
 - d) Learning how to use AI tools.
2. If an AI hiring tool favors male applicants over female applicants, this is an example of:
 - a) Transparency
 - b) Fairness
 - c) Bias
 - d) Accountability
3. Why is transparency important in AI?
 - a) It makes AI systems easier to use.
 - b) It allows us to understand how AI systems make decisions.
 - c) It makes AI systems more efficient.
 - d) It protects the privacy of AI developers.
4. Which of the following is NOT a key principle of AI ethics?
 - a) Fairness
 - b) Profitability
 - c) Transparency
 - d) Accountability
5. An AI system that collects your personal information without your permission violates your:
 - a) Safety
 - b) Privacy
 - c) Transparency
 - d) Fairness

Part 2: Short Answer Questions

1. Explain why bias in data can lead to ethical problems in AI. Give a specific example.
2. Imagine a self-driving car has to make a difficult decision in an unavoidable accident. It can either protect its passenger or a pedestrian. What ethical dilemmas does this scenario raise?
3. Why is accountability important when it comes to AI systems? Who should be responsible if an AI makes a mistake?
4. Describe a situation where an AI system could have unintended consequences.
5. What are some things you can do to ensure you are using AI responsibly?