



MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI – 62
CLASS VIII

WORKSHEET (OCTOBER)

ENGLISH

A. Choose the correct option for appropriate modals:

1. You ___ finish your homework before going out.
a) can b) should c) may d) might
2. _____ I borrow your pen, please?
a) Must b) Should c) Could d) Would
3. We ___ reach the station on time if we hurry.
a) can b) must c) may d) will
4. Students ___ not talk during the exam.
a) could b) may c) must d) might
5. It ___ rain today; the sky is cloudy.
a) must b) should c) might d) shall
6. You ___ apologize for your mistake.
a) could b) should c) can d) might
7. He ___ speak three languages fluently.
a) can b) must c) may d) will
8. ___ you please open the window?
a) Could b) Should c) Must d) May
9. We ___ obey the traffic rules.
a) should b) can c) may d) could
10. You ___ park your car here; it's a no-parking zone.
a) should b) must not c) might d) could

B. Fill in the blanks with the correct form of the verb given in brackets.

1. She ___ (go) to school every day
2. They ___ (play) football when it started raining.
3. I ___ (finish) my work before you arrived.
4. He ___ (not eat) anything since morning.
5. We ___ (watch) a movie last night.
6. By this time tomorrow, we ___ (reach) Delhi.
7. The sun ___ (rise) in the east.
8. She ___ (study) for two hours before dinner.
9. I ___ (meet) him yesterday at the mall.
10. They ___ (build) a new house next year.

हिंदी

I. निम्नलिखित प्रश्नों के उत्तर विस्तार से दें-

- क) अशोक गाना सुनने क्यों आया था?
- ख) भगवानी देवी को खेलों में सक्रीय करने में सबसे बड़ी चुनौती क्या थी?
- ग) 'स्प्रिंटर दादी' पाठ से आपको क्या प्रेरणा मिलती है?
- घ) मानव को अमोल क्यों कहा गया है?
- ङ) हमारी संस्कृति को उन्नत बनाने वाले चार अध्याय कौन-कौन-से हैं?
- च) हमारी संस्कृति में नई ताज़गी कब आई?
- छ) सम्राट अशोक विजय प्राप्त करके भी क्यों हार गए ?
- ज) आज के मानव को चूहे से क्या सीखना चाहिए ?
- झ) चूहा लेखक को परेशान क्यों करता था?
- ञ) 'हर्बल शैम्पू' विषय पर एक आकर्षक विज्ञापन तैयार करें।

II. निम्नलिखित व्याकरण के प्रश्नों के उत्तर दें

- i. राधा रात्रि का भोजन पका रही है - वाक्य को कर्मवाच्य में बदलकर लिखिए।
- ii. वाच्य को परिभाषित कर उसके भेद का उदाहरण सहित एक फ्लो चार्ट बनाएं।
- iii. 'आकाश' और 'वृक्ष' के पर्याय लिखिए।
- iv. 'गर्दभ' और 'सिंह' शब्द के तद्भव रूप लिखिए।
- v. अव्यय और अविकारी शब्द के दो-दो उदाहरण लिखिए।
- vi. अर्थ के आधार पर वाक्य के सभी भेदों का एक-एक उदाहरण लिखिए।
- vii. हिमालय और गजेंद्र शब्दों के संधि विच्छेद करके लिखिए।

संस्कृत

प्रश्न 1 गद्यांशान् पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

एकदा ग्रामे कश्चित् कृषकः निवसति स्म। स प्रतिदिनं प्रातःकाले कृषिकार्यं कृत्वा श्रान्तः गृहं प्रत्यागच्छति स्म। तस्य एकः पुत्रः आसीत्। पुत्रः सदैव क्रीडनकानि एव प्रियं मन्यते स्म। स पितरं कृषिकार्ये न सहायतुं गच्छति स्म। एकस्मिन् दिने पितरं पृष्टवान् — “किं कृषिकार्यं कष्टकरं भवति?” पितरं तम् उक्तवान् — “त्वं यदा मम सह कृष्यां कार्यं करिष्यसि, तदा जानिष्यसि।”।

उत्तरत लिखत -

- (i) कस्मिन् एकस्मिन् दिने पुत्रः किं पृष्टवान्?
- (ii) कृषकः प्रतिदिनं किम् करोति स्म?
- (iii) पुत्रस्य किम् अधिकं प्रियं आसीत्?
- (iv) कृषकः पुत्रं किं उक्तवान्?
- (v) एषः गद्यांशः कुत्र स्थितस्य जीवनं वर्णयति?

प्रश्न 2. पूर्णवाक्येन उत्तरत ।

- (i) कृष्णसर्पं दृष्ट्वा किम् अचितन्यत् ?
(ii) गंगदत्तः कथं दुःखितः अभवत् ?
(iii) मण्डूकाभावे कृष्णसर्पः गंगदत्तं किम् अवदत् ?
(iv) अन्ते विषधरः किम् अकरोत्?

प्रश्न 3. शुद्धेन शब्दरूपेया वाक्यानि पुरयत। शुद्धेन

- (i) गंगदत्तस्य ----- सह कलहः अभवत्। (बन्धूनु/बन्धुभिः बन्धुभ्यः)
(ii) सः एकदा ----- बहिः आगतः (कुपात्/ कृपे/कूपाय)
(iii) मण्डूकः ----- समीपम् अगच्छत्। (सर्वस्य/सर्पण/ सर्प)
(iv) -----भोजनाय किञ्चित् अन्यत् देहि। (मां/मयि/महयम्)

प्रश्न 4. शब्दार्थाः लिखत ।

- (i) कलहः
(ii) अन्यत्र
(iii) अधुना
(iv) कदाचिद्

प्रश्न 5. एकपञ्चाशत्तः षष्टिं (51-60) पर्यन्तं सङ्ख्याशब्दान् लिखत।

प्रश्न 6. संस्कृतभाषायां पञ्च खगानां नामानि लिखत।

MATHEMATICS

Q1. The point (0, 5) lies on:

- (a) x-axis (b) y-axis (c) origin (d) none

Q2. The coordinates of origin are:

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

Q3. The x-coordinate of a point is also called the _____.

- (a) ordinate (b) abscissa (c) origin (d) coordinate

Q4. Plot the following points on the graph paper:

- (i) A(2, 3), (ii) B(-1, 4), (iii) C(0, -2), (iv) D(-3, -1)

Q5. Write the coordinates of points lying on:

- (i) x-axis (ii) y-axis

Q6. The common factor of $12x^2y$ and $18xy^2$ is.

Q7. $a^2 - b^2$ can be written as _____.

Q8. Factorize:

(i) x^2+5x+6 (ii) $9y^2-25$ (iii) $2x^2+3x$

Q9. Write the following standard identities:

(i) $(a+b)^2=$ _____

(ii) $(a-b)^2=$ _____

(iii) $(a+b)(a-b)=$ _____

Q10. Simplify:

(i) $(x+3)^2$ (ii) $(3a-2b)^2$ (iii) $(2x+5)(2x-5)$

Q11. If $a+b=5$ and $ab=6$, find a^2+b^2 .

Q12. The sum of $5x^2+7x+3$ and $2x^2-5x+1$ is _____.

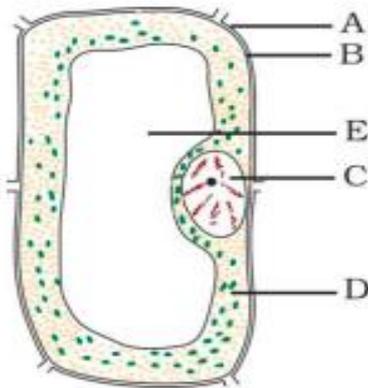
Q13. The product of: (i) $3a^2 b$ and $2ab^3$ (ii) $(x+2y+3z)$ and $(x+y+z)$

Q14. **Subtract:** $(8x+6y-5)$ from $(5x+2y-3)$.

Q15. Simplify: $(2x+3)(x+4)-(x+2)^2$.

SCIENCE

1. Label the parts A to E in the given diagram:



2. Answer the following questions:

a) A new species of plants is introduced to a habitat. What kind of a negative impact can this new species have on the biodiversity of the region?

b) What will happen if lions are totally killed in a forest?

c) How does recycling of paper conserve natural resources?

d) Why is it important to conserve forest ?

e) List three states in India where earthquakes are more likely to occur.

f) Write the precautions that one should follow during an earthquake and lightning

SOCIAL SCIENCE

A. Multiple Choice Questions

1. Which of the following is a Rabi crop?
a) Rice b) Wheat c) Maize d) Cotton
2. Which sector provides employment to the largest number of people in India?
a) Industry b) Agriculture c) Service d) Transport
3. Who is the head of the Supreme Court in India?
a) Chief Justice of India b) President c) Prime Minister d) Law Minister
4. What is the main function of the judiciary?
a) Make laws b) Enforce laws c) Interpret laws d) None of these
5. Who introduced the Doctrine of Lapse?
a) Lord Canning b) Lord Dalhousie c) Lord Wellesley d) Lord Ripon
6. The Revolt of 1857 began from which city?
a) Delhi b) Kanpur c) Meerut d) Lucknow
7. Which of the following is a cash crop?
a) Wheat b) Cotton c) Maize d) Barley
8. What is the highest court of appeal in India?
a) High Court b) Supreme Court c) District Court d) Lok Adalat

B. Very Short Answer Questions

1. Define agriculture.
2. Name any two types of farming practiced in India.
3. Who appoints the Chief Justice of India?
4. Name two leaders associated with the Revolt of 1857.
5. What is the role of the judiciary in protecting fundamental rights?

C. Long Answer Questions

1. Explain the different types of farming practices found in India with suitable examples.
2. Describe the structure of the judiciary in India. How does it ensure justice for all?
3. Discuss the main causes and effects of the Revolt of 1857.

D. Assertion and Reasoning

Read both the statements carefully and choose the correct option:

- A. Both A (Assertion) and R (Reason) are true and R is the correct explanation of A.
- B. Both A (Assertion) and R (Reason) are true but R is not the correct explanation of A.
- C. Assertion is true but Reason is false.
- D. Assertion is false but Reason is true.

1. Assertion: The Supreme Court is the highest judicial authority in India.
Reason: It settles disputes between states and the central government.
2. Assertion: The Revolt of 1857 was the first war of Indian independence.
Reason: It was the first organized attempt by Indians to overthrow British rule.
3. Assertion: Agriculture in India depends heavily on monsoon.
Reason: Irrigation facilities are available throughout the country.

ARTIFICIAL INTELLIGENCE

SECTION A: Multiple Choice Questions

1. Which programming language is most commonly used in AI development?
 - a) HTML
 - b) Python
 - c) CSS
 - d) Pascal
2. What is the most in-demand AI skill according to employers in 2025?
 - a) AI and Big Data
 - b) Cooking
 - c) Painting
 - d) Sports Management
3. Which mathematical skill is essential for AI professionals?
 - a) Addition only
 - b) Statistics and Probability
 - c) Basic counting
 - d) None of the above
4. Which soft skill is becoming increasingly important for AI careers?
 - a) Creative thinking
 - b) Memorization
 - c) Following orders blindly
 - d) Avoiding teamwork
5. Which industry has seen an 800% increase in job postings requiring AI skills since 2022?
 - a) IT and Computer Science only
 - b) Non-tech industries
 - c) Agriculture only
 - d) Manufacturing only

SECTION B: Short Answer Questions

6. Name any TWO programming languages that are important for AI development.
7. What is "Machine Learning" and why is it important for AI careers?
8. List any THREE industries where AI is creating significant job opportunities.
9. Explain why communication skills are important for AI professionals.
10. What does "AI literacy" mean, and why is it important for future careers?

INFORMATION TECHNOLOGY

Section A: Multiple Choice Questions (MCQs)

1. Flash CS5 is mainly used for creating:
 - A) Text documents
 - B) Animation and multimedia content
 - C) Database applications
 - D) Spreadsheets

2. In Flash CS5, the Timeline is used to:
- A) Store images
 - B) Arrange and control animation frames and layers
 - C) Insert sound only
 - D) Add text to the stage
3. The Motion Tween feature in Flash CS5 is used to:
- A) Change color of text only
 - B) Create smooth movement of objects between frames
 - C) Insert sound effects
 - D) Design static images
4. The ActionScript in Flash is used for:
- A) Writing database queries
 - B) Adding interactivity to animations
 - C) Drawing shapes
 - D) Creating spreadsheets
5. The Symbol feature in Flash helps to:
- A) Reduce file size and reuse objects
 - B) Increase animation speed
 - C) Delete frames automatically
 - D) Add filters to photos

Section B : Short answer Questions:

- 6. What is Adobe Flash CS5 used for?
- 7. What is the purpose of the Timeline in Flash?
- 8. Define frame and keyframe in Flash.
- 9. What is the difference between motion tween and shape tween?
- 10. What are symbols and instances in Flash?