MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI-62
CLASS - VIII
WORKSHEET (JULY)

ENGLISH

Q 1) Read the following case studies and answer the questions:

I. While visiting the Andaman Islands, a group of tourists took a restricted route to see the Jarawa people. Although they had been warned, they offered the tribespeople food and tried to take photos. Later, the authorities penalized them for violating tribal protection laws.

a) Why is it important to respect the privacy and protection of tribes like the Jarawa?

b) What steps has the government taken to protect the Jarawa community?

II. Rahul, a student who never participates in sports, prefers cheering from the stands. His friends often mock him for not being "manly" or active in sports. But Rahul proudly says, "I'd rather be a safe spectator than risk a black eye!"

a) How does Rahul's attitude reflect the narrator's thoughts in "Confession of the Born Spectator"?

b) What literary device does the poet use to make the poem humorous and engaging?

III. A powerful king fell sick, and no doctor could cure him. An old wise man declared that the king would recover only by wearing the shirt of a truly happy man. Messengers searched far and wide but returned empty-handed—except one, who found a man truly content but who had no shirt at all.

a) What message does the story convey through the incident of the happy man without a shirt?

b) Why is the ending of the story considered ironic?

Q 2) You are Kanika / Karan. Your school's Fitness Club hosted a workshop called "Art of Living for Students." Write a letter to the Editor of the local daily newspaper, giving your thoughts on the matter.

Q 3) Choose the correct alternative of indirect speech from the given alternatives:

i. Hari said to Ram, "You gave me a book."
(A) Hari told Ram that you had given him a book.
(B) Hari told Ram that he had given me a book.
(C) Hari told Ram that he had given him a book.
(D) Hari told Ram that I have given him a book.

ii. I said to my classmate, "Please lend me your cycle."
(A) I requested my classmate to lend me his cycle.
(B) I advised my classmate to lend me his cycle.
(C) I forbade my classmate to lend me his cycle.
(D) I ordered my classmate to lend me his cycle.

हिंदी

1. सब जगह सब काल में कौन फूला-फला मिलता है?
2. गोनू झा के बारे में गांववालों के क्या विचार थे?
3. भारत को चिर कुमारी क्यों कहा गया है?
4. कवि ने देश को किस रूप में प्रस्तुत किया है?
5. सत्य की सही तोल क्या है?
6. दुष्ट के सामने क्या नहीं करना चाहिए?
7. संस्कृति क्या है?
8. संस्कृति और सभ्यता में क्या अंतर है?
9. सावित्री ने देव शर्मा को क्या समझाया?
10. तीन दिवस तक कौन किससे पंथ माँगता रहा ?
11.   नीचे दिए गए दयाश का पढ़कर गए प्रश्नों के उत्तर दीजिए-

संस्कृति का काम आदमी के दोष को कम करना, उसके गुणों को अधिक बनाना है। आदमी भी एक तरह का जानवर ही है. लेकिन जानवर के गुण यानी पशुत्व को छोड़कर यह जितना ही आगे बढ़ता है, उसकी संस्कृति भी उतनी ही अच्छी होती जाती है।

संस्कृति का स्वभाव है कि वह आदान-प्रदान से बढ़ती है। जब दो देशों या जातियों के लोग आपस में मिलते हैं, तब उन क्षेत्रों की संस्कृतियाँ एक-दूसरे को प्रभावित करती हैं। एक जाति का धार्मिक रिवाज दूसरी जाति का रिवाज बन जाता है।

(क) जानवर का क्या गुण है?
(ख) आदमी के दोष को कौन कम करता है?
(ग) पशुत्व छोड़कर आगे बढ़ने से क्या होता है?
(घ) संस्कृति का विस्तार कैसे होता है?

संस्कृत

प्रश्न 1. उचितम् उत्तरत चिनुत ।

(क) वाजश्रवः यज्ञान्ते काः गाः अयच्छत्?

a) बलवत्यः नव्यश्च गाः
b) दुग्धदायिन्यः गाः
c) दुर्बलाः वृद्धाश्च गाः
d) शुक्लवर्णाः सुन्दरीः च गाः

(ख) नचिकेताः पितरं कं प्रश्नं पुनः पुनः अपृच्छत्?

a) 'किमर्थं यजनं क्रियते?'
b) 'भवान् मां कस्मै समर्पयति?'
c) 'कदा अहं गच्छामि?'
d) 'स्वर्गः कुत्र अस्ति?'

(ग) यमः नचिकेताय कियत् वरान् अदत्त?

a) एकं
b) द्वौ
c) त्रयम्
d) चत्वारः

(घ) नचिकेताः तृतीयेन वरेण किम् अयाचत?

a) राज्यं च धनं च
b) दीर्घायुस्
c) पितुः प्रसन्नता
d) आत्मज्ञानम्

(ङ) यमेन उक्तं आत्मा कथं अस्ति?

a) नश्वरः च नवीनः च
b) अजरः अनश्वरः अनादिः अनन्तश्च
c) केवलं शरीरे एव स्थितः
d) मृत्युः पश्चात् नश्यति

प्रश्न 2. पाठ 5 से कोई एक श्लोक लिखकर उसकी हिंदी में व्याख्या करें।
प्रश्न 3. पञ्च परिवारस्य सदस्यां नामानि ।
प्रश्न 4.पञ्च पशूनाम् नामानि लिखत ।

MATHEMATICS

Q1 Find the square of the following numbers:

  a) 12   b) 25   c) 6.3

Q2. Find the smallest number by which 9408 must be divided so that it becomes a perfect square.

Q3. Find the square root of the following:

    a) 625   b) 169   c) 0.49

Q4. Find the least number which must be added to 1300 to make it a perfect square.

Q5. Find the square root of the following using the prime factorisation method:

  a) 729   b) 324

Q6. Find the number of digits in the square root of 1024.

Q7. Find the cube of the following numbers:

    a) 3   b) 5   c) 1.2

Q8. Find the smallest number that should be multiplied by 5408 to make it a perfect square.

Q9. Find the cube root of the following:

    a) 512   b) 1000   c) 729

Q10. Find the smallest number by which 375 must be multiplied to get a perfect cube.

Q11. Write the cube root of the following using prime factorisation:

    a) 2197   b) 5832

Q12. Find the value of:

    a) $(2/5)^3$ b) $(1.2)^3$

Q13. A cube has a volume of 512 cm³. Find the length of its side.

Q14. The area of a square garden is 441 m². Find the length of its side.

Q15. A number when squared gives 4489. Find the number.

Q16. The cube of a number is 2197. What is the number?

SCIENCE

Q.1. Define these terms:

a) Oestrogen

b) Autosomes

c) Ovulation

d) Hormones

e) Puberty

Q.2. Fill in the blanks:

a) Pituitary gland secretes_____ hormones.

b) The sexual cycle in females is called_____ cycle.

c) Thyroid gland is located in _____ region below _____.

d) _____ are called ductless gland.

e) In boys protruding part of the throat is called _____.

Q.3. Answer the following questions:

a) An adolescent child is short in height. Give two possible reasons for his/her short height.

b) Why are adolescents advised to take more proteins in their diet than adults?

c) Why does the pelvic area of girls become wider during puberty?

SOCIAL SCIENCE

A. Multiple Choice Questions
1. Which of the following is not a cause of land degradation?
   a) Deforestation b) Overgrazing c) Crop rotation d) Mining
2. Which type of forest is found in areas with more than 200 cm of rainfall?
   a) Tropical deciduous forests b) Desert vegetation c) Tropical evergreen forests d) Temperate grasslands
3. Which of the following is not a fundamental right related to secularism in India?
   a) Right to freedom of religion b) Right to property c) Cultural and educational rights d) Equality before law
4. 4. The excessive use of chemical fertilizers leads to:
   a) Soil fertility b) Water conservation c) Soil pollution d) Forest growth
5. 5. Which of these practices helps in the conservation of water?
   a) Over-irrigation b) Drip irrigation c) Industrial dumping d) Urban sprawl

B. Very Short Answer Questions
1. How evergreen forest are different from deciduous forest ?
2. Name one type of natural vegetation found in India.
3. What does the term 'secularism' mean?

C. Long Answer Questions
1. Explain three ways in which land can be conserved.
2. Discuss any three causes for the loss of natural vegetation and wildlife.
3. Differentiate between the secularism of USA and INDIA

D. Assertion and Reasoning
Read both the statements carefully and Choose correct   Option from the options given below -
A Both A (Assertion)and R (Reason) both are true and R is the correct explanation of A .
 B iBoth A (Assertion)and R (Reason) both are true and 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: Afforestation helps in preventing soil erosion.
   Reason: Roots of trees hold the soil firmly and reduce the impact of rain.
2. Assertion: India is a secular country.
   Reason: The government in India promotes only one religion.

E. Higher Order Thinking Skills (HOTS)
1. You live in an area facing water scarcity. Suggest innovative methods your community can adopt to save water and ensure availability for future generations.
2. Imagine that local authority does not allow people of a particular religion to celebrate their festivals. What constitutional right is being violated? How would you respond as a student?

ARTIFICIAL INTELLIGENCE

Multiple Choice Questions (MCQs)

1. Which of the following is an example of AI being used in your daily life?
a) Reading a physical book
b) Using a calculator for basic math
c) Asking Siri a question on your phone
d) Writing with a pen and paper

2. What is the main function of AI in a recommendation system (like on Netflix or Amazon)?
a) To show you random items   b) To analyze your past choices and suggest new ones

c) To help you search for specific items
d) To tell you the price of products

3. Which of these smart home devices uses AI to learn your family's preferred temperatures and adjust automatically?
a) A regular light switch
b) An AI-powered thermostat
c) A traditional key lock
d) A manual vacuum cleaner

4. When a security camera uses AI to tell the difference between a family member and a stranger, what is it primarily doing?
a) Playing music
b) Identifying and verifying faces
c) Ordering groceries
d) Turning lights on and off

5. How might AI-powered educational apps help students in the future?
a) By making all students learn at the same speed
b) By adapting lessons to a student's individual learning style
c) By replacing teachers entirely
d) By only showing the easiest content

Short Answer Questions

1. Give two examples of how AI is used in your smartphone.

2. How do navigation apps like Google Maps use AI to help you travel?

3. Describe one way AI can enhance the security of a smart home.

4. Besides temperature control, name one other type of smart appliance that uses AI in a smart home.

5. In the future, how might AI make interactive toys more engaging for children?

INFORMATION TECHNOLOGY

Section A: Multiple Choice Questions (MCQs) (1 mark each)

1. Which tag is used to create a hyperlink in HTML?
   a) <link>   b) <a>   c) <href>   d) <url>
2. Which attribute in the <a> tag defines the URL of the page the link goes to?
   a) link   b) src   c) href   d) target

3. What does the <table> tag do in HTML?
   a) Creates a button   b) Displays images
   c) Adds a hyperlink   d) Creates a table
4. Which tag is used to define a row in a table?
   a) <th>   b) <tr>   c) <td>   d) <table>
5. What is the function of <input type="submit">?
   a) To clear the form   b) To cancel the form
   c) To submit the form   d) To reset the form

Section B: Match the Columns

Column A	Column B
<th>	a. Creates a table row
<a href="...">	b. Table header
<form>	c. Defines a form
<td>	d. Table cell
<tr>	e. Hyperlink

Section C: Answer in One Word or One Line

1. Write the HTML code to create a link to https://www.google.com.
2. What does the <input type="text"> do in an HTML form?
3. Name two tags used to build a table.
4. Write the tag used to create a dropdown list in a form.

Section D: HTML Code Analysis

Read the code snippet and answer the questions:

```
<table border="1">
 <tr>
  <th>Roll No</th>
  <th>Name</th>
 </tr>
 <tr>
  <td>1</td>
  <td>Rahul</td>
 </tr>
</table>
```

1. How many rows and columns are there in the table?
2. What tag is used to give table borders?
3. What is the difference between <th> and <td>

Section E: Write the HTML Code.

1. **Create a table** with the following information:

   Subject Marks
   Math   95
   Science 90