

**MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI – 110062**

WORKSHEET (JULY)

CLASS- 9

ENGLISH

Q-1. Read the extracts and answer the questions that follow.

“The pair finally got married in January 1903, and had two sons. But a few years later, the marriage faltered”.

1. Name the “pair” referred to in the above lines.
2. What happened to their marriage?
3. Which word from the extract means “became weak”?

Q-2. Read the extracts and answer the questions that follow.

I will arise and go now, for always night and day
I hear the lake water lapping with low sounds by the shore;
While I stand on the roadway, or on the pavements grey,
I hear it in the deep heart's core.

1. What makes the poet to arise and go to Innisfree?
2. How does the poet hear the sound of the lake water while living in the city?
3. How does the poet draw a contrast between Innisfree and the city of his residence?

Q-3. Write a short story in 100 – 150 words, with the help of the cues given below. Give a suitable title to the story.

**Satish was standing on the balcony watching the last rays of the Sun. Loud and angry voices in the street below distracted his attention. He ran down the stairs to see what had happened
... ..**

Q-4. Answer the following questions in 30-40 words each.

- a. What were the two important decisions taken by the doctor while looking into the mirror?
- b. Why did the author of “The Snake and the Mirror” fantasize a fat woman as his wife?

हिंदी

स्पर्श

1. यशपाल जी की कहानी दुःख का अधिकार में दुख मनाने का अधिकार सबको क्यों नहीं है?
2. एवरेस्ट : मेरी शिखर यात्रा पाठ के आधार पर बताइए मई की रात को कैम्प तीन में क्या घटना घटी और एक अन्य साथी ने लेखिका की जान कैसे बचाई?
3. बातचीत की उछलती गेंद चर्चा के क्षेत्र के सभी कोनों से टप्पे खाकर फिर सेंटर में आकर चुपचाप पड़ी हैं – तुम कब जाओगे अतिथि पाठ के आधार पर कथन का आशय स्पष्ट कीजिए।
4. रैदास के प्रभु में वे कौन-सी विशेषताएँ हैं जो उन्हें अन्य देवताओं से श्रेष्ठ सिद्ध करती हैं?
5. सूई तथा तलवार के उदाहरण द्वारा कवि क्या संदेश देना चाहते हैं?
6. गीत अगीत पाठ का केंद्रीय भाव अपने शब्दों में लिखिए।

व्याकरण

प्रश्न 1 – निम्नलिखित शब्दों में से उचित स्थान पर अनुस्वार और अनुनासिक का प्रयोग कीजिए –
जगल, गणतंत्र, सधि, सबध, सुदर, अक, फूकना, धुआ, बासुरी, अगुली

प्रश्न 2 - निम्नलिखित वाक्यों में उचित विराम-चिह्न का प्रयोग करते हुए दोबारा लिखिए-

- i. लोगों ने मिस्टर शर्मा को एम पी चुन लिया
- ii. सुभाष चंद्र बोस ने कहा तुम मुझे खून दो मैं तुम्हें आजादी दूंगा
- iii. क्या प्रधानाचार्य आज नहीं आए हैं
- iv. तुलसी ने रामचरित मानस में लिखा है परहित सरसि धर्म नहीं भाई
- v. तुम कौन हो कहाँ रहते हो क्या करते हो यह सब मैं क्यों पूछू
- vi. बूढ़े ने डॉक्टर चड्ढा से कहा इसे एक नज़र देख लीजिए शायद बच जाए
- vii. कामायनी कवि जयशंकर प्रसाद की प्रसिद्ध कृति है

प्रश्न 3 - निम्नलिखित के बारे में दो अंतर स्पष्ट करें-

शब्द और पद को परिभाषित कर दोनों के मध्य दो-दो अंतर स्पष्ट करो ।

प्रश्न 4 .निम्नलिखित शब्दों में संधि कीजिए और भेद भी बताइये-

- i. यदि + अपि =
- ii. मत + ऐक्य =
- iii. स्व + इच्छा =
- iv. महा + औषध =
- v. वार्षिक + उत्सव =
- vi. वन + औषधि =
- vii. महा + उदय =
- viii. उदय + अंचल =
- ix. शब्द + अर्थ =
- x. मंत्र + आलय =

MATHEMATICS

1. Mahesh wants to paint a wall of his room. He decides to paint the wall in two colours, pink and white, divided diagonally. The length and breadth of the wall are $(x+4)$ and $(3x+2)$ respectively. The diagonal of the wall is x^2+3x .
- (i) The area of the wall is _____ polynomial.
(a) linear (b) quadratic (c) cubic (d) biquadratic
- (ii) The area of the wall is
(a) $(x+4)(3x+2)$ (b) $(x+4)+(3x+2)$
(c) $(x+4)-(3x+2)$ (d) $(x+4) \div (3x+2)$
- (iii) Mahesh wished to draw flowers in the squared area of the wall. For this the breadth should be reduced by
(a) $2(x+3)$ (b) $(x-4)$ (c) $(3x+2)$ (d) $2(x-1)$
- (iv) The zero of the polynomial $(x+4)$ is
(a) 0 (b) 4 (c) -4 (d) $\frac{1}{4}$
- (v) If $x=2$, the area to be painted pink is
(a) 14 (b) 20 (c) 24 (d) 28

1. Find the value of $(351)^2 - (350)^2$.
2. Find $p(1) + p(-1) + P(10)$ if $p(x) = x^2 - 3x + 2$.
3. Factorize : a) $64a^2 + 96ab + 36b^2$.
b) $x^3 + 6x^2 + 11x + 6$
5. If $(x + 4)$ is a factor of the polynomial $x^3 - x^2 - 14x + 24$, find the other factors.
6. Check whether $(1, -2)$ is a solution of the equation $2x - y = 6$
- 7.

The RWA of a locality is running a lending library to develop the habit of reading books among society. To run this library they charges a fixed amount of ₹10 for first five days for a book and ₹ 3 for each day there after.



- (A) If you borrow the book for 7 days what amount you will have to pay.
(a) ₹ 15 (b) ₹ 16
(c) ₹ 70 (d) ₹ 21
- (B) If you borrow two books and you paid total amount as ₹ 40, then number of days for which book was borrowed.
(a) 10 days (b) 12 days
(c) 15 days (d) 30 days
- (C) The linear equation to represent the condition by taking x as total number fo days ($x \geq 5$) and total amount to be paid as ₹y.
(a) $3x-y=5$ (b) $3x+y=5$
(c) $y=3x+10$ (d) $x=3y+10$
- (D) In the linear equation (correct option from part C) if $x=7$ then the value of y is.
(a) -1 (b) 31
(c) -16 (d) 16
- (E) The correct option to borrow a book for a number of days and amount paid for it is.
(a) 5 days, ₹ 20 (b) 15 days, ₹ 45
(c) 8 days, ₹ 14 (d) 10 days, ₹ 25

SCIENCE

Q.1 Read the following paragraph and answer the given questions:

The growth of plants occurs only in certain specific regions. This is because the dividing tissue, also known as meristematic tissue, is located only at these points. Depending on the region where they are present, meristematic tissues are classified as apical, lateral and intercalary Tissues at the tip of stem and roots are called as apical meristem. Meristematic tissues are primarily made up of dividing cells. Lateral meristem tissues are responsible for the growth of girth in the trunk.

I. Girth of the stem of a tree increases due to

- a. Apical meristem b. Vertical meristem c. Intercalary meristem d. Lateral Meristem

II. A long tree has several branches, tissue which supplies water to them is:

- a. Collenchyma b. Xylem Parenchyma c. Parenchyma d. Xylem Vessels

III. Which of the following does not have perforated walls?

- a. Tracheids b. Companion cells c. Sieve tubes d. Vessels

IV. A sugarcane plant keeps on growing in the length even after removal of its tip due to the presence of: a. cambium b. apical meristem c. lateral meristem d. intercalary meristem.

V. A person met with an accident in which two long bones of his hands are dislocated. Which among the following could be the possible reason behind it?

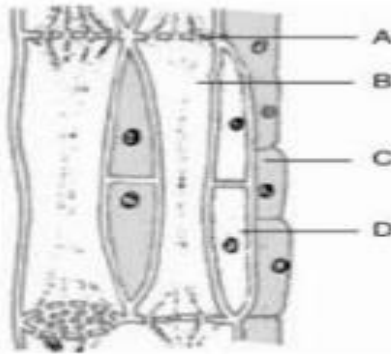
- a. Tendon Break b. Break of skeletal muscles. c. Ligament break d. Areolar tissue break.

Q2. How are simple tissues different from complex tissues in plants?

Q3. Name the living component common to both the complex permanent tissues found in plants.

Q4. i. Name the tissue shown in the diagram.

ii. Identify the parts 'A', 'B', 'C' and 'D'.



Q5. a. Draw a well labelled diagram of a Neuron.

b. write the function of nervous tissue.

Q6. a. Name the tissues responsible for:

- i. Storage of fats in animals body**
- ii. joining one bone to another.**
- iii. Covers external surface of animals.**
- iv. joining a bone to muscles.**

b. Differentiate between three types of muscles.

SOCIAL SCIENCE

1. The books "Two Treatises on Government" was written by _____.
2. Louis XVI sentenced to death on charges of _____.
3. 'Subsistence Crisis' in France was _____.
4. The red cap worn by Sans Culottes in France symbolise _____.
5. The 'sans-culottes'. What does it mean?
6. Why is the period from 1793 to 1794 referred to as the 'Reign of Terror'?
7. Who among the following reintroduced slavery in France after it was abolished by Jacobin regime?
8. _____ proposed the Social Contract theory.
9. The greatest achievement of the National Assembly convened in France in 1789 was _____.
10. Name the three 'Estates' into which the French society was divided before the Revolution.
11. What was feudalism?
12. Give the titles of the books written by : (a) Rousseau (b) Charles Montesquieu
13. What was the theme of the book 'The Spirit of the Laws' written by Montesquieu?
14. What measures were taken by Robespierre to bring equality in the French Society?
15. State the events that led to the formation of the National Assembly.
16. 'Social disparity was one of the major causes of the French Revolution.' Justify by giving examples.
17. Who controlled economic and social powers before the 18th century in France?
18. Why were socialists against private property and saw it as the root of all social ills?
19. What was the basic principle of the Marxist theory?
20. What were the main objectives of the Russian Revolutionaries?

INFORMATION TECHNOLOGY

1. What is a short-range wireless communication technology called?
(a) Wi-Fi (b) Internet
(c) Bluetooth (d) PS Figure
2. Which part of the home screen is visible on all pages?
(a) Status bar (b) Main icon area
(c) Dock (d) Clock
3. What does GPS stand for?
(a) Global Positioning System (b) Global Payment System
(c) Global Program System (d) Global Pointing System
4. Which of the following units make up the CPU? Choose and tick all the correct options.
(a) Processing Unit (b) Input Unit
(c) Memory Unit (d) Control Unit (e) Output Unit
5. Which of the following are names of ports in a computer? Choose and tick all the correct options.
(a) HDMI (b) Input (c) VGA (d) USB (e) Ethernet
6. There is a talent contest in your town. For participating in the audition, you have to send a recording of a song. What would you connect to your computer to record your song?
(a) Keyboard (b) Microphone (c) Scanner (d) Mouse
7. Which of the following functions are performed using a mouse. Choose and tick all the correct options.
(a) Turn on computer (b) Typing (c) Right click (d) Drag and Drop an Icon
8. What is the term used when you press and hold the left mouse key and move the mouse around?
9. (a) Highlighting (b) Dragging (c) Selecting (d) Moving
10. Rearrange the steps for starting a computer in the correct sequence.
(a) Desktop appears after login ()
(b) Login screen appears ()
(c) Power on Self-Test (POST) starts ()
(d) Operating system starts ()
(e) Welcome screen appears ()
11. Email is an electronic message transmitted over the Internet or computer network from one user to another.(T/F)
12. Give any two uses of ICT at home.
13. What are the emerging skills in ICT?
14. Write differentiate between RAM and ROM.
15. List the steps to search for information using a web browser.

ARTIFICIAL INTELLIGENCE

Multiple Choice Questions (Choose the correct answer)

1. What is the print function used for in Python?
 - a) To ask the user for input
 - b) To display output to the screen
 - c) To perform calculations
 - d) To store data
2. Which of the following is a valid Python variable name?
 - a) 123abc
 - b) hello_world
 - c) my-name
 - d) @symbol
3. What is the purpose of the `#` Symbol in Python?
 - a) To start a new line
 - b) To end a statement
 - c) To comment out code
 - d) To define a function
4. Which Python data type is used to store a single character?
 - a) String
 - b) Integer
 - c) Float
 - d) Char
5. What is the output of `print(5 + 3)`?
 - a) 8
 - b) 15
 - c) 2
 - d) Error
6. Which of the following is a Python keyword?
 - a) print
 - b) hello
 - c) world
 - d) myname
7. What is the purpose of indentation in Python?
 - a) To make code more readable
 - b) To define a function
 - c) To start a new line
 - d) To end a statement
8. Which Python function is used to get user input?
 - a) print()
 - b) input()
 - c) range()
 - d) len()
9. What is the output of `print("Hello" + "World")`?
 - a) HelloWorld
 - b) Hello World
 - c) "Hello" + "World"
 - d) Error
10. Which of the following is a Python data type?
 - a) Array
 - b) List
 - c) Dictionary
 - d) All of the above

Short Answer Questions

1. What is the difference between `=` and `==` in Python?
2. How do you define a string in Python?
3. What is the purpose of the `len()` function in Python?
4. How do you ask the user for input in Python?
5. What is the output of `print(5 * 2)`?

Long Answer Questions

1. Explain the different Data Types used in Python.
2. Write a program that calculates the area of a circle. Ask the user for the radius and then print the calculated area. (Hint: $\text{Area} = \pi * \text{radius}^2$. Remember, Python doesn't have a built-in constant for π , so you can use 3.14 or a more precise value).
3. Explain the concept of variables in Python and provide examples of how they are used.
4. What are different Operators used in Python? Explain each briefly.