## MOUNT COLUMBUS SCHOOL DAKSHINPURI, NEW DELHI – 110062

#### **WORKSHEET (APRIL)**

#### CLASS-9

#### **ENGLISH LANGUAGE AND LITERATURE**

### I. Read the passage given below.

- 1. As the family finally sets off from home after many arguments, there is a moment of lull as the car takes off. "Alright, so where are we going for dinner now?" asks the one at the driving wheel. What follows is a chaos, as multiple voices make as many suggestions.
- 2. By the time, the order is restored and a decision is arrived at, tempers have risen, feelings injured and there is at least one person grumbling.
- 3. Twenty years ago, you would step out of home, decision of meal and venue already made with no arguments or opposition and everybody looked forward to the meal with equal enthusiasm. The decision was made by the head of the family and the others fell in line. Today every member of the family has a say in every decision which also promotes a sense of togetherness and bonding.
- 4. We empower our kids to take their own decisions from a very early age. We ask them the cuisine they prefer, the movie they want to see, the holiday they wish to go on and the subjects they wish to study.
- 5. It's a closely connected world out there, where children consult and guide each other. A parent's well meaning advice can sound like nothing more than unnecessary preaching. How then do we reach our children through all the conflicting views and make the voice of reason be heard? Children today question choices and prefer to go with the flow.
- 6. What then is the best path to take? I would say the most important thing one can do is to listen. Listen to your children and their silences. Ensure that you keep some time aside for them; insist that they share their stories with you. Step into their world. It is not as complicated as it sounds; just a daily half an hour of the quality time would do the trick.

# Based on the understanding of your unseen passage, answer the following questions:-

i. According to	the passage, who said	, "so, where are we going f	for dinner now?"
a. narrator	b. one at the steeri	ng c. one of the pas	ssengers d. one
of the guests			
ii. Twenty years	ago, according to the	e passage, decisions were_	
a. unanimous, w	ith no argument	b. made by the c	children
c. taken by the h	nead of the family	d. not taken by e	elders
iii. The passage	concludes that in mo	dern times, children are	to take their
own decision fro	om a very early age.		
a. forbidden	b. trained	c. not given permission	d. allowed
iv. Choose the antonym as given in Para 6 of this passage.			
Word	Antonym		
Simple			
v. Twenty years ago, the decision was made by the head of the family and the others			
fell in line. How the decisions are taken now a day?			

	e message conve		•	ıy two points.
				_
vii. After arrivabove.	ving at a decision	almost every	one is	in the family mentioned
a. happy	b. excited c.	hurt d	. elated	
	n times, each fan he family.	nily member h	as a say in deci	ision making points toward
	used word "hurt	" in Para 2. W	hat is the synor	nym of hurt as used in this
Paragraph?			•	•
x. The word v	which means the	same as a style	e or method of	cooking in Para 4 is
·				
a. gourmet	b. cuisine	c. gastric	d. science	
				ach. r encourage her to get to
(II) What did called a World		desk drawer at	the patent offi	ice? Why? Why was he

(III) Who was Mr. APJ ABDUL KALAM? Who were his school friends? What did they later become? What characteristics does he say he inherited from his parents?

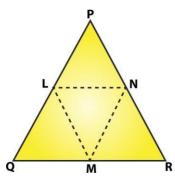
# हिंदी

1. निम्नलिखित वाक्यों का अर्थ के आधार पर वाक्य भेद बताइए।				
(क) शायद बारिश	ा बंद हो गई।			
(ख) परिश्रम का फल मीठा होता है।				
(ग) अरे! धोनी ने त	तो आज कमाल कर वि	देया।		
(घ) यदि ठंड पड़ेग	गी तो मैं कोट पहनूँगा	I		
(ड.) क्या आप कर	ल जयपुर जा रहे हैं?			
(च) ईश्वर तुम्हें सप	<b>म्लता प्रदान करें।</b>			
(छ) क्या बच्चे कक्ष	न्ना में शोर मचा रहे हैं'	?		
(ज) बाजार से साग	मान ले आना।			
(झ) यदि पानी बर	सता, तो फसल अच्छे	ी होती।		
(ञ) वाह! भारत व	ग्न <del>ी</del> टीम जीत गई।			
2. निम्नलिखित शब्दों व	का संधि-विग्रह कर र	तंधि का नाम बताइ।	ए।	
(क) सत्यार्थ	(ख) सदैव	(ग) कवींद्र	(घ) परमानंद	(ङ) महेश्वर
(च) महोत्सव	(छ) वार्षिकोत्सव	(ज) परमात्मा	(झ) महेंद्र	(ञ) वनौषधि
3. निम्नलिखित प्रत्यय	जोड़कर दो-दो नवीन	। शब्द बनाइए ।		
(क) आन	(ख) इक	(ग) आई	(घ) अक्कड़	(ङ) इत
	(छ) दार			(ञ) आरा
4. निम्नलिखित शब्दों र	में से उपसुर्ग व मूलश	ब्दि अलग-अलग व	<sub>रु</sub> के लिखे।	
(क) निर्बल	(ख)अभिमान	(ग) दुस्शासन	(घ) सुयोग	(ङ) कुपुत्र
(च) चिरकाल	(छ) अतिक्रमण	(ज) निराहार	(झ) सफल	(ञ) समालोचना
<ol> <li>निम्नलिखित शब्दों ।</li> </ol>	में उचित स्थान पर अ	नुस्वार/ अनुनासिक	<sub>र</sub> ु का प्रयोग कर पुनः	: लिखे।
	(ख) कुवारा			
(च) चचल	(छ) नदन	(ज) अधेरा	(झ) ककर	(ञ) चंगुल

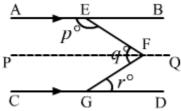
### **MATHEMATICS**

Q1. If  $a^2 + b^2 + c^2 = 83$  and a+b+c=15 then the value of ab+bc+ca is.

Q2. In a  $\triangle$ PQR, if PQ = QR and L, M and N are the mid-points of the sides PQ, QR and RP, respectively. Prove that LN = MN.



Q3. In the given figure, AB  $\parallel$  CD and PQ  $\parallel$  CD Prove that p +q -r =180.



Q4. Express the following linear equations in the form ax + by + c = 0 and indicate the values of a, b and c in each case:

(i) 
$$x - y/5 - 10 = 0$$

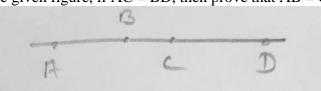
(ii) 
$$-2x+3y = 6$$

Q5. Factorise  $x^2 - 1 - 2a - a^2$ .

Q6. Write the following cubes in expanded form:

(i) 
$$(2a - 3b)^3$$
 (ii)  $(3x/2 + 1)^3$  (iii)  $(x - 2y/3)^3$ 

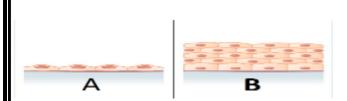
Q7. In the given figure, if AC = BD, then prove that AB = CD.

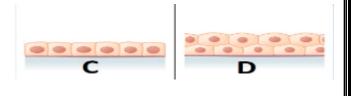


Q8. If a point R lies between two points P and Q such that PR = QR, then prove that PR = 1/2 PQ. Explain by drawing the figure.

#### **SCIENCE**

- Q1. Write the functions of-
- a. Chloroplast b. Mitochondria c. Golgi apparatus d. Xylem e. Phloem f. Parenchyma
- g. Collenchyma h. Nucleus i. Tendon
  - Q2. Explain the third law motion.
  - Q3. Write the factors on which the following depends:
    - a. Momentum b. Inertia
- Q4. How is suspension different from colloid.
- Q5. Identify the given types of epithelial tissues:





Q6. Why do fielders pull their hand gradually with the moving ball while holding a catch?

#### SOCIAL SCIENCE

- 1. Who formed the First and Second Estate of French Society?
- 2. Define Tithe and Taille.
- 3. Describe the Reign of Terror and role played by Robespierre in it.
- 4. Discuss the various causes of French Revolution.
- 5. Elucidate the participation of women in political clubs, their activities and demands.
- 6. Who were Liberals? Why do you think they were not democrats?
- 7. What were the demands referred in Lenin's "April Theses"?
- 8. Explain the impact of the Russian Revolution on the world.
- 9. Elaborate the main causes of the Russian Revolution.
- 10. MAP SKILL On the outline map of World locate the following-
- i. Central Powers of First World War- a) Germany b) Austria- Hungary c) Turkey.
- ii. Allied Powers of First World War- a) France b) England c) Russia d) America.
- iii. Vegetation type- Tropical evergreen forest, Thorn forest, Mangrove
- iv. National parks- Corbett, Kaziranga, Simlipal and Manas.
- v. Wild life Sanctuaries- Rajaji, Dachigam, Sariska and Mudumalai.
- 11. On the outline map of France label the following- A) Paris B) Bordeaux C) Marseilles.
- 12. Name two water bodies which separate India from Sri Lanka.
- 13. Describe how the geographical features of India have fostered unity and homogeneity in the Indian society.
- 14. Give an account of four divisions of Himalayas from west to east.
- 15. In what ways a Democratic Government is different from Non-Democratic Government?
- 16. How was Apartheid system practiced in South Africa?
- 17. "Election Commission is an independent and powerful body." In the light of this statement explain the composition and powers of the Election Commission.
- 18. Explain the difference between economic activity and non-economic activity?
- 19. What are the different causes of poverty? Explain?
- 20. Elucidate the targeted anti-poverty programmes under taken by the government.

## **INFORMATION TECHNOLOGY**

1.	Mr. Joshi is a business manager. He needs to analyse data by applying some automatic
	calculations. Which software is best suited for this?
	a. MS Excel
	b. Open Office Calc
	c. Google Sheets online
	d. Any of these
2.	Ravi has typed the heading NAMES in cell B3. In the cells below it, he typed names of his
۷.	friends, one in each consecutive row. What is the cell address of the last friend's name?
	a. B9
	b. B8
	c. G3
	d. G9
_	If cell A1 contains a formula $=5*2$ , then what will Formula bar display?
3.	a. $=5*2$
	b. 10
	c. A1
	d. Error
4.	An active cell is represented by cursor.
	a. Blinking
	b. Rectangular
	c. Mouse
	+ shaped
5	Ravi has entered headings Name, Date of birth and Address in cells A1, B1 and C1. Below
٠.	each heading, in consecutive cells, he entered names, dates of birth and addresses of his 10
	friends, one record in each row. He wants to select entire range of headings and data. What will be the valid range?
	a. A1:C11
	b. A2:C11
	c. A1:C10
	d. A2:C11
6.	Cell A1 has value 1 in it. Dragging fill handle downwards will fill the cells below A1 with:
0.	a. 1
	b. 1, 2, 3, and so on
	c. Nothing
	d. 1,3,5,7 and so on
	Ravi copied the formula $=B5*D5$ from cell C2 to cell D1. How will the formula in cell C1
7.	look like?
	a. C4*E4
	b. C5*E5
	c. A4*C4
	d. A5*C5

	avi wants to create a formula to calculate percentage marks in MS Excel. Which o must use?	perator
a	* and /	
	* and \ percentage function	
d.	+ -	
9.	How many text alignments are there in MS Excel spreadsheet?	
	a. 3 b. 6	
	c. We cannot align text in spreadsheet.	
	d. 8	
10.	Wrap text changes the of the cell.	
	a. Height	
	b. Width	
	c. Both a) and b) d. None of these	
11.	Middle alignment is different from Center alignment in MS Excel in that:	
	a. It aligns the text horizontally in the cell's center.	
	b. It aligns the text vertically in the cell's center.	
	<ul><li>c. Middle and Center are same.</li><li>d. There is no option by the name <i>Middle</i>.</li></ul>	
12.	Auto-hide Ribbons option also hides the tabs.	
	a. True	
	b. False	
13.	The currency symbol can be changed using dialog box.  a. Format Number	
	b. Format Currency	
	c. Format Cells d. Format Data	
14.	Font style does not include Font size.	
·	a. True b. False	
15.	Delete dialog box is displayed when we select option in Delete drop-do	own, in
	Cells group under Home tab.  a. Delete cells	
	b. Delete Sheet Columns	
	c. Delete Sheet Rows	
	d. None of these	
16.	Print Area setting allows you to:	
	a. Print current sheet	
	b. All the worksheets in a workbook  Selected cell range	
	<ul><li>c. Selected cell range</li><li>d. All of these</li></ul>	

## ARTIFICIAL INTELLIGENCE

<ol> <li>What is the first stage of the AI project</li> <li>Data collection</li> <li>Model development</li> </ol>	t cycle? b) Problem Scoping d) Testing
<ul><li>2. Which of the following is a benefit of a) Increased efficiency</li><li>c) Alignment with human values</li></ul>	AI reflection? b) Improved accuracy d) Reduced cost
<ul><li>3. What is the primary goal of AI ethics?</li><li>a) To increase AI efficiency</li><li>c) To ensure AI fairness and transparency</li></ul>	b) To reduce AI costs
<ul><li>4. Which stage of the AI project cycle in a) Problem definition</li><li>c) Model development</li></ul>	volves testing AI systems? b) Data collection d) Deployment
<ul><li>5. What is bias in AI?</li><li>a) Unfair or discriminatory outcomes</li><li>c) Efficient or effective outcomes</li></ul>	b) Accurate or fair outcomes d) Cost-effective or reduced outcomes
<ul><li>6. What is transparency in AI?</li><li>a) The ability to explain AI decisions</li><li>c) The ability to reduce AI costs</li></ul>	b) The ability to improve AI accuracy d) The ability to increase AI efficiency
7. Why is diverse data important in AI de a) To increase AI efficiency c) To ensure AI fairness and accuracy	evelopment? b) To reduce AI costs d) To improve AI transparency
<ul><li>8. What is the role of human oversight in</li><li>a) To increase AI efficiency</li><li>c) To ensure AI fairness and accuracy</li></ul>	AI development? b) To reduce AI costs d) To improve AI transparency
<ul><li>9. Which of the following is a benefit of a) Increased efficiency</li><li>c) Building trust with stakeholders</li></ul>	AI transparency? b) Improved accuracy d) Reduced cost
10. What is the primary goal of the AI pr a) To develop efficient AI systems c) To develop fair and transparent AI sys	b) To develop accurate AI systems
<ul><li>11. Which stage of the AI project cycle in</li><li>a) Data collection</li><li>c) Model development</li></ul>	nvolves defining the problem? b) Problem definition d) Testing
12. What is the role of ethics in AI develor a) To increase AI efficiency c) To ensure AI fairness and transparency 13. Which of the following is a strategy fa) Using diverse data sets c) Reducing AI costs	b) To reduce AI costs y d) To improve AI accuracy
14. What is the significance of reflection a) To increase AI efficiency c) To ensure AI fairness and transparency	b) To reduce AI costs

- 15. Which of the following is a benefit of AI ethics?
  a) Increased efficiency b) In
  - b) Improved accuracy

c) Fairness and transparency

d) Reduced cost

Section B: Short Answer Questions

- 1. What is AI reflection?
- 2. What are the stages of the AI project cycle?
- 3. Why is ethics important in AI development?
- 4. What is bias in AI?
- 5. What is transparency in AI?

#### Section C: Long Answer Questions

- 1. Describe the role of reflection in AI development and its importance in ensuring AI systems align with human values.
- 2. Explain the stages of the AI project cycle and their significance in developing effective AI solutions.
- 3. Discuss the importance of ethics in AI development and its role in mitigating potential negative consequences.
- 4. Describe strategies for addressing bias in AI development and ensuring diverse perspectives are represented.
- 5. Explain the significance of transparency in AI decision-making and its role in building trust with stakeholders.