

Benevolent Global Public School

Ward No 31, Saharsa Basti, Saharsa, Bihar 852201

An ISO 9001:2015 Certified Organization

Affiliated to Dept of Education, Govt of Bihar

Winter Holiday Assignment – IX

COMPLETE THIS HOLIDAY ASSIGNMENT ON SEPARATE SHEET AND SUBMIT IT ON 3-JAN-17

ENGLISH

Q1. Write a letter to the editor of the daily ‘The New Indian Express’ about rash and reckless driving, suggesting measures. You are Navin/ Nikita living at D-47, Friends colony, New Delhi.

Q2. You are Smita/ Sohan. Write an article for local daily describing how people create congestion on the road due to the marriage processions, rallies and dharnas.

Q3. “ The sky was overcast with dark clouds. It was your first day at your uncle’s place in the hills....complete the story in your own words. (200-250 words)

Q4. You are Raman, Editor of the school magazine, who wants to hold an inter-school competition in the school to collect poems and cartoons for the magazine. Draft a notice in about 50 words.

Q5. Complete the story in about 200- 250 words using the hints given below:

Megha – a brilliant girl-always topped in the class- suddenly her performance dropped- her teachers and parents all were worried – they took the help from councillor- he found out the reason- she was too much burdened with coaching classes, self study, and poor diet- some gradual lifestyle changes were suggested – she started improving.

Literature

- Q1. Why the grandmother was so desperate to read the story 'Kashi yatre'?
- Q2. Why the narrator made fun of the grandmother when she told her about her resolution about being literate till Dassara?
- Q3. How Duke brought a change in the life of Marcy and Chuck?
- Q4. Why the poet gives more significance to the road not taken?
- Q5. Why the brook says it will go on forever? what does it highlights about its significance?
- Q6. Why the poet uses the phrase "I babble on the pebble"? what comparison is drawn here between humans and the brook here?
- Q7. What do you learn about life from the chapter "A dog named Duke"?

Grammar

1. In the passage given below, one word has been omitted in each line. Write the missing word with the word that comes before and after the word. The first one is done as an example

- | | |
|--|--------------------|
| Ten months I decided to leave | e.g., months ago I |
| my country and went the | a) _____ |
| USA. When reached there | b) _____ |
| I suddenly found labelled | c) _____ |
| as foreign student. Gradually | d) _____ |
| I discovered a foreign student | e) _____ |
| had problems whether he was Japan | f) _____ |
| like me or from other country. A | g) _____ |
| foreign student had to work twice as hard an | |
| America to succeed in college | h) _____ |

2. In the passage given below, one word has been omitted in each line. Write the missing word with the word that comes before and after the word. The first one is done as an example

On the banks of Ganga, where	e.g., of the Ganga
it emerges of the Himalayan foot-hills,	a) _____
there are long stretches forest. There are	b) _____
villages the fringe of the forest inhabited	c) _____
by bamboo cutter and farmers. This area an	d) _____
ideal hunting ground and animals	e) _____
are not numerous as they used to be.	f) _____
the trees, too, have disappeared slowly	g) _____
and as the forest recedes the animals lose	h) _____
their food and shelter.	

3. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction in your answer sheet as given below against the correct blank number.

	Incorrect	Correct
Although, their is no direct evidence that	a) _____	_____
salt is a cause of highly blood pressure	b) _____	_____
or hypertension, there were studies which	c) _____	_____
indicate that reducing salt intake lower	d) _____	_____
blood pressure. Some scientist are also	e) _____	_____
concern that excessive use of salt may	f) _____	_____
caused asthma and kidney disease.	g) _____	_____
Asthma should not be deal lightly.	h) _____	_____

4. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction in your answer sheet as given below against the correct blank number. The first one is done as an example

	Incorrect	Correct
The next day during an break	e.g., an	a
when all the teacher and students	a) _____	_____
was eating their snacks, the mother	b) _____	_____
left the school building hurriedly.	c) _____	_____
The boy saw him walking	d) _____	_____
quickly from of the school gate	e) _____	_____
when he was drunk water after	f) _____	_____
his meal and wonder where	g) _____	_____
his mother is going.	h) _____	_____

5. Rearrange the following words or phrases to make meaningful sentences:

- a. The/on/forests/the/industry/oil/depends
- b. do/get/the/forests/from/what/we/products?

6. Rearrange the following words or phrases to make meaningful sentences:

- a. poison/smoking/slow/is kind of/a.
- b. Immature/prevalent/it is/among/youth/the/ most

7. Fill in the blanks by choosing the appropriate words from the brackets:

Climate changes (a) _____ (is/are) one (b) _____ (of/for) the most (c) _____ (hot/hotly) contested environmental debates of our time. (d) _____ (Would/Will) the West Antarctic ice sheet melt entirely? Will the Gulf Stream ocean current

(e) _____ (be/is) disrupted? May be or maybe not. (f) _____ (either/neither) way, Antarctica is a crucial element in this debate. What (g) _____ (might/will) be the effect of global warming (h) _____ Antarctica in the coming years?

8. Fill in the blanks by choosing the appropriate words from the brackets:

Dr. Hoki's house (a) _____ (was/has) built on a spot of the Japanese coast where (b) _____ (as/is) a little boy he had often (c) _____ (gone/went). The low, square stone house (d) _____ (is/was) set (e) _____ (upon/on) the rocks well (f) _____ (above/below) the narrow beach that was outlined with bent pines. His father wanted Hoki to (g) _____ (study/learn) medicine. He sent him to America (h) _____ (of/for) studying medicine

Maths

1. Express $\sqrt{5.42}$ geometrically and represent it on number line.
2. Visualise the representation of 1.3333..... on the number line upto 4 places.
3. If $x = \sqrt{7} + \sqrt{5}$ and $y = \sqrt{7} - \sqrt{5}$, evaluate i) xy
ii) $x^2 + y^2$ iii) $(x^2 - y^2)^2$.
4. If $x = \sqrt{5} + 2$, then prove that $x^2 + 1/x^2 = 18$.
5. If $5^{2x-1} - 25^{x-1} = 2500$, find the value of x .
6. Simplify : $(.0001)^{1/4}$
7. Find the zeros of the polynomials given below:
i) $q(t) = 3t - 4$
ii) $r(s) = 3s + 4a$
8. Show that $(x+1)(x+2)$ is a factor of the polynomial $x^3 + 8x^2 + 17x + 10$.
9. If $(2x + 1)$ be a factor of the polynomial $p(x) = kx^3 + 23x^2 + 71x + 30$. Then find k and hence factorise the polynomial $p(x)$.

10. Factorise:

i) $x^3 + x^2 - 24x + 36$

ii) $t^3 + 2t^2 + 47t - 60$

11. If x and y be two positive real numbers such that $x > 3y$, $x^2 + 9y^2 = 369$ and $xy = 60$, find the value of $x - 3y$.

12. If the perimeter of a rectangle be 24 units and the length exceeds the breadth by 4 units, then find the area of the rectangle.

13. Evaluate $325 \times 325 - 25 \times 25$ by using suitable identity.

14. Plot the points $(3, 0)$, $(-5, -2)$, $(-5, 1)$, $(0, 6)$, $(3, 3)$, $(5, -2)$ in the Cartesian plane. Also find the quadrant in which it lie.

15. Factorise:

(i) $a^3 - 0.343$

(ii) $64x^2y^2 + 25z^2 - 80xyz$

(iii) $16y^2 - 9x^2y^2$

(iv) $25x^2y^2z^2 - 36u^2$

(v) $125x^3y^3 + 25z^3$

(vi) $27x^3 - 8y^3 - 125z^3 - 90xyz$

(vii) $64x^3 + 125y^3 - 64z^3 + 240xyz$

(viii) $x^3 - 8y^3 - 64z^3 - 24xyz$

(ix) $x^3 - y^3 + 3xy + 1$

16. Without actually calculating the cubes, evaluate

(i) $(21)^3 - (12)^3 - (9)^3$

(ii) $(24)^3 - (13)^3 - (11)^3$

(iii) $(7)^3 + (8)^3 - (15)^3$

(iv) $(9)^3 + (11)^3 - (20)^3$

17. If $x = 2y + 6$, prove that the value of $x^3 - 8y^3 - 36xy - 212$ is equal to 4.

18. By using suitable identify, find the product of $(2x - 5y + 6z) * (4x^2 + 25y^2 + 36z^2 + 10xy + 30yz - 12zx)$

19. By using suitable identity, find the product

$$(3x-5y+4) * \{9x^2+25y^2+15xy-12x+20y+16\}$$

20. By using suitable identity, find the product
 $(\sqrt{2}a+\sqrt{3}b+\sqrt{4}c) * (2a^2+3b^2+4c^2-\sqrt{6}ab-\sqrt{12}bc-\sqrt{8}ac)$

SST

Q.1 What setback did democracy face in Chile? Or How did General Pinochet come to power in Chile?

Q.2 What were the differences in the two democratic governments in Chile and the other in Poland with regard to their approach towards social and economic matters? What are their basic features?

Q.3 Who was Kwame Nkrumah? Discuss his role in the history of Ghana.

Q.4 Name some international organizations. Are they truly democratic? Give reasons for your answer.

Q.5 Who is Aung San Suu Kyi? Discuss her role in Myanmar's struggle for democracy.

Q.6 Describe the size and location of India.

Q.7 Why do we need a standard meridian for India?

Science

Q.1 Define uniform motion with an example.

Q.2 Distinguish between distance and displacement with an example.

Q.3 Differentiate between scalar and vector quantities giving two examples each.

Q.4 A cyclist covers two and a half circle of radius 7m. Calculate distance covered and displacement.

Q.5 Fill up the blanks

a) Average speed is taken for an ____ of time.(instant/ interval)

b) Instantaneous velocity is taken for an ____ of time. (instant/ interval).

Q.6 Define acceleration with SI unit and formula.

Q.7 Draw position time graph for a body at rest.

Q.8 Draw velocity graph for uniform motion and uniformly accelerated motion.

Q.9 What does the area under the velocity time graph signifies?

Q.10 Derive the three equations of motion graphically and also define uniform circular motion.

Q11 A drop of ink is placed gently at the base of a beaker containing water by means of a dropper. What will happen?

Q12: Why do dry apricot placed in salt solution do not swell while they do so when kept in water?

Q13: How do substances like CO₂ and H₂O move in and out of the cell?

Q14: Why is plasma membrane known as selectively permeable membrane?

Q15: Put a drop of blood in three type of liquids:

a. Pure water

b. Salt solution

c. Water containing 5M glucose and 0.9% NaCl

What will happen to the blood drop and why? Explain your answer

Q16: Why is endocytosis found in animals only?

Q17: If you are provided with some vegetables to cook, you generally add salt into vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?

Q18: Why lysosomes are known as suicidal bags?

Q19: How are chromatin and chromosomes are related to each other?

Q20: Differentiate between diffusion and osmosis.

Q21: What do you understand by semi autonomous bodies? Give examples also

Q22: Explain why does spinach look green, papaya yellow and edible parts of water melon red?

Q23: Define membrane biogenesis. Where do lipids and proteins constituting the plasma membrane gets synthesized?

Q24: What are genes? Where are they located in the cell?

Q25: What for ATP stands for? Which organelle is the power plant of eukaryotic cell. Write in brief its function.