

BIOLOGY Summer Vacation Home Work

STD 7

1. GIVE REASON FOR THE FOLLOWING STATEMENTS. (Find and write)

- a. Xylem cells are basically non-living.
- b. Parenchyma has no intercellular spaces.
- c. Muscle cells are contractile.
- d. The cells are the fundamental unit of life.
- e. Permanent tissues are specialised.
- f. Meristematic tissues are responsible for growth.
- g. Vascular bundles are conducting tissues.
- j. Chloroplast carries out photosynthesis.
- i. Vacuoles are absent in meristematic tissue.

2. a. Make a table and write the example and function for the following cell shape:

- a. biconcave
- b. Amoeboid
- c. Elongated

b. Make a table and write location and functions for the following:

- 1. Centrosome
- 2. Nucleus
- 3. Chloroplast
- 4. Cell wall
- 5. Ribosomes
- 6. Nucleolus
- 7. Chromatin fibres
- 8. Tonoplast
- 9. Dictyosomes
- 10. Chromoplasts

3. Draw all the diagrams of chapters on cell and plant tissues in your biology exercise notebook. All the diagrams should be neatly labelled with a pencil.

3. Revise and learn all the notes and question answers of the above chapters and prepare for the unit test.

Don Bosco Academy, Patna

Chemistry Holiday homework

For Class VII (2024-2025)

Common Name Chemical Name & Formula (To be learnt)

Sl. No	Common Name	Chemical Name	Formula
1	Common salt/ Table salt/ rock salt	Sodium chloride	NaCl
2	Baking Soda	Sodium hydrogen carbonate or sodium bicarbonate	NaHCO ₃
3	Washing Soda	Sodium Carbonate deca hydrate or Hydrated Sodium carbonate	Na ₂ CO ₃ .10H ₂ O
4	Marble or Lime stone or chalk	Calcium Carbonate	CaCO ₃
5	Sand	Silica	SiO ₂
6	Quick Lime	Calcium oxide	CaO
7	Slaked lime	Calcium hydroxide	Ca(OH) ₂
8	Blue Vitriol	Copper Sulphate pentahydrate or hydrated Copper sulphate	CuSO ₄ .5H ₂ O
9	Caustic Soda	Sodium hydroxide	NaOH
10	Caustic Potash	Potassium hydroxide	KOH
11	Vinegar	Acetic Acid	CH ₃ COOH
12	Dry Ice	Solid Carbon dioxide	CO ₂
13	Laughing Gas	Nitrous Oxide	N ₂ O
14	Nitre	Potassium nitrate	KNO ₃
15	Gypsum	Calcium Sulphate dihydrate or Hydrated Calcium Sphate	CaSO ₄ .2H ₂ O
16	Plaster of Paris	Calcium sulphate hemihydrate or Hydrated Calcium Sulphate	CaSO ₄ . ½ H ₂ O
17	Alumina	Aluminium Oxide	Al ₂ O ₃
18	Rust	Hydrated Iron(III) oxide or Hydrated Ferric Oxide	Fe ₂ O ₃ . x H ₂ O
19	Bleaching Powder	Calcium oxychloride	CaOCl ₂
20	Green Vitriol	Ferrous sulphate heptahydrate or Hydrated ferrous sphate	FeSO ₄ .7H ₂ O
21	Muriatic Acid	Hydrochloric Acid	HCl
22	Aqua fortis	Concentrated Nitric Acid	HNO ₃

23	Brim Stone	Sulphur	S
24	Zinc blende	Zinc Sulphide	ZnS
25	Marsh Gas	Methane	CH ₄

1. Write Questions and answers of exercise I and exercise II in the notebook.
2. Write the formula list in your notebook.
3. Learn all question and answers of both exercises and also learn formulae from the formula list.

HISTORY & CIVICS : HOLIDAY HOMEWORK

Class - VII

History - Ch1 : Rise and Spread of Christianity

1. Write and learn the new words.
2. Make 10 objective questions (should be different from the questions in the exercise)
3. Learn all the questions and answers of the exercise and the extra questions

Civics - Ch1 : The Constitution of India

1. Write and learn the meanings of the 'Keywords of the Preamble'.
2. Write and learn the new words
3. Make 10 objective questions (should be different from the questions in the exercise)
4. Learn all the questions and answers of the exercise and the extra questions.

***Note**

- The above given work has to be done neatly in History and Civics notebook in the given order.
- To be submitted latest by **20th June, 2024.**

Class - 7

Summer Holiday Homework

A. Do the following Conversions:-

$$i) (101)_{10} \rightarrow ()_2$$

$$ii) (101)_2 \rightarrow ()_{10}$$

$$iii) (101)_{10} \rightarrow ()_8$$

$$iv) (101)_8 \rightarrow ()_{16}$$

$$v) (1101110)_2 \rightarrow ()_8$$

B. Learn Question Answers of
Ch-1 and Ch-2.

CLASS 7 Holiday Homework: Language:

Revise the topics:

Verbs – Kinds of Verbs

Finites & Non-Finites

Tenses

Informal Letter Writing:

Write a letter to your friend regarding your plans on spending summer vacation and invite your friend to stay with you for a week.

Learn the Prepositions : 1- 25

Guided English Book:

Practice language structures from chapters – 1, 3, 6 & 9

Read News Paper daily

Holiday Homework: Literature:

Revise the chapters & Poems

Learn question answers

Learn the word meanings

Learn the vocabulary from each Prose & Poem

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Mathe H.W.

Solve the following questions:-

1. Complete the following using the signs
 $+$, $-$, \times , \div

(i) $9 \underline{\quad} 3 \underline{\quad} 3 = 9$

(ii) $9 \underline{\quad} 3 \underline{\quad} 3 = 0$

(iii) $9 \underline{\quad} 3 \underline{\quad} 3 = 6$

(iv) $9 \underline{\quad} 3 \underline{\quad} 3 = 24$

2. A shopkeeper gains ₹ 2 on each pen and loses 50 paise on each pencil. He sells 60 pens and 100 pencils. How much has he gained or lost?

3. Convert the following into like fractions

$$\frac{11}{24}, \frac{5}{12}, \frac{7}{18}, \frac{13}{45}$$

4. Write the following fractions in the ascending order

$$\frac{5}{6}, \frac{7}{8}, \frac{11}{12}, \frac{13}{15}, \frac{23}{26}$$

5. Find the value of $12\frac{1}{2} \div \frac{5}{7}$ of $4\frac{2}{3}$

6. Ajit and Kunal paid $\frac{5}{7}$ and $\frac{2}{7}$ of the total cost of a book of comics. If the book cost ₹ 84, how much did each of them spend?

7. Write $37\frac{1}{2}\%$ as (i) fraction, (ii) decimal and (iii) ratio
8. Ravi's monthly salary is ₹16,000 and Rahul's salary is $6\frac{1}{4}\%$ more than Ravi's salary. What is their total monthly income?
9. Define the following terms
- (i) Collinear points
 - (ii) Point
 - (iii) Line
 - (iv) Ray
 - (v) Line segment
10. Express algebraically
- (i) Sum of x and 5
 - (ii) 11 added to twice of x
 - (iii) 23 subtracted from the sum of x and 3
 - (iv) 2 years older than y years
 - (v) x multiplied by 11 and then 25 reduced from the product.

Sanskrit

Std:- 7th.

M T W T F S S

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YOUVA

Sanskrit Holiday Home work

Session :- 2024 ⇒ 2025

All Shabd roop and dhatu roop from your Unit test. syllabus, write in your copy and learn it.

Holiday Homework Geography

Std 7

Project 1:

Topic: Weather and Climate

Instructions: Students, please note that for writing this project, use the geography book and the internet.

1) Introduction

2) Elements of Weather and Climate

a) Temperature: an instrument to measure the temperature

b) Atmospheric pressure: an instrument to measure the pressure

c) Wind: An instrument to show the wind direction

d) Humidity: an instrument to measure humidity

e) Precipitation: an instrument to measure the rainfall.

Conclusion

Project 2:

Draw the structure of the atmosphere and mention two characteristics of each layer with their height in the tabular form.

Physics H.H.N.

A. Define the following terms

- (a) Density
- (b) Relative Density
- (c) Circular Motion
- (d) Non Periodic Motion
- (e) Frequency of oscillation
- (f) Uniform Motion
- (g) Variable Speed
- (h) Retardation
- (i) Average speed
- (j) Displacement.

B. State one point of difference for the following in a tabular way.

1. Mass and Weight
2. Density and Relative Density
3. Rectilinear Motion and Curvilinear Motion
4. Oscillatory Motion & Vibratory Motion
5. Scalar quantity & Vector quantity
6. Speedometer and Odometer
7. Speed and Velocity
8. Rectilinear and Rotational Motion

C. State the factors on which time period depends upon and factors on which time period doesn't upon.

12/11/19
D. Draw the diagrams of the following

(a) Beam Balance

(b) Relative Density Bottle

(c) Example of a Periodic Motion.

(d) Diagram of Speedometer

(e) Diagram of a pendulum showing, mean position, extreme position, length, point of suspension, amplitude.

E. State with an example how motion and Rest are relative terms.

F. Please make 5 MCQs for Chp 1 as well as Chp 2 with four alternative answers.

जरीलमावकाश उत्तरकार्य 2024-25

कक्षा - 7
हिन्दी

खण्ड 'क'

हिन्दी व्याकरण

① अपठित गद्यांश
अभ्यास (1 से 5 तक)

② व्यावहारिक व्याकरण
विलीन शब्द (1 से 35 तक)
पर्यायवाची शब्द (1 से 35)
बुनैक शब्दों के लिए एक शब्द (1 से 35)

नोट - कॉपी में लिखकर याद करें।

खण्ड 'ख'

नूतन गुंजन भाग - 7

पाठ - 1 नदी

पाठ - 2 यह मेरा यह मीत का

दोनों पाठों के प्रश्न के उत्तर लिखकर याद करें।

• प्रतिदिन एक पेज कॉपी में सुलेख।