



# D.M. PUBLIC SCHOOL

PARSIA, PUTKI, DHANBAD

## Summer Assignments(2024-25)

### CLASS X

#### MATHEMATICS

##### A. REAL NUMBERS:

SOLVE NCERT EXERCISE 1.2, 1.3

##### B. POLYNOMIALS :

Write the definition of the following:-

1. Quadratic Polynomial,
2. Degree of polynomial,
3. Zeroes of polynomial

Solve NCERT exercise 2.1, 2.2 and RS Agarwal exercise 2A.

##### C. Introduction to Trigonometry: Solve NCERT exercise 8.1, 8.2 and 8.3

D. **PROJECT WORK:** Write all the trigonometric identities and trigonometric formulas on a white chart paper.

#### HINDI

A. पाठ-1 पद-1 से 4 के सभी प्रश्नोत्तर लिखें और याद करें।

B. पाठ 2 - नेताजी का चश्मा पाठ के सभी प्रश्नोत्तर लिखें और याद करें।

C. पाठ 3 अलंकार - अर्थालंकार के भेदों की परिभाषा और उदाहरण लिखें और याद करें ।

D. लगभग २०० शब्दों में निबंध लिखें -

(क) राष्ट्र प्रेम

(ख) छात्र और अनुशासन

#### SCIENCE

##### BIOLOGY

A. Make a model ( working model if possible) of **human digestive system** or any of the organs with well labelled parts and write the functions of the organs in detail.

B. Write the names of exocrine glands, their secretions , substrate and products of all the exocrine glands present in our body on a chart paper. A viva will be conducted after vacation on the same topic

C. Solve all the PYQ ( previous years questions) related to Nutrition and Respiration .

##### CHEMISTRY

- Find **FIVE examples** from your surroundings, related to **Corrosion and Rusting**. Write it down on a chart paper.
- Write down types of Chemical reactions with proper reactions.

##### PHYSICS

A. Practice the ray diagram for the image formed by Concave and convex mirror and Lens . Also write the uses of Concave and Convex Mirror and Lens.

B. Write down the Systemic chart for all the important formula and sign conversion for Mirror and Lens

### SANSKRIT

- 1- संधि का अभ्यास करें।
- 2- चित्रवर्णन एवम पत्रलेखन का अभ्यास करें।
- 3- द्वितीयः पाठः का प्रश्न संख्या 4 और 6 का उत्तर लिखें।

### GEOGRAPHY

#### **Chapter 1 :- Resources and Development**

Write the answers of the following questions :-

- (i) Explain Land Use pattern in India and why has the land under forest not increased much since 1960-1961?
- (ii) How Have technical and economic development led to more consumption of resources?

#### **Project Works:-**

- Q 1 - On the physical outline map of India show all types of soil.  
Q 2 - On the map of India show important Tiger reserve.  
Q3 – Make a Soil profile on chart paper. .

### HISTORY

#### **Chapter 1 :- The Rise of Nationalism in Europe**

Write the answers of the following Questions.

(i) Write a note on :-

(a) Guiseppe Mazzini

(b) Count Camilo de Cavour

© The Greek War of Independence

(d) Frankfurt parliament

€ The Role of Women in nationalist struggle

(ii) Who were marianne and Germania? What was the importance of the way in which they were portrayed?

#### **Project Work:-**

- (i) Find out more about nationalist symbols in countries outside Europe. For one of two countries, collect examples of pictures, posters or music that are symbols of nationalism. How are these different from European examples?
- (ii) Make a timeline of the events of chapter 1 - The Rise of Nationalism in Europe.

### CIVICS

#### **Ch.1 - Power Sharing**

Write the answers of the following questions:-

- (i) What are the different forms of power-sharing in modern democracies? Give an example of each of these.
- (ii) State one prudential reason and one moral reason for power-sharing with an example from the Indian context.
- (iii) Power-sharing is the very spirit of democracy. Do you agree?

**Project Work :-**

**What have you learned from the stories of Belgium and Sri Lanka? Make a presentation on the topic.**

**ECONOMICS**

1. Write an article about Effects of Pandemic on Migrant Labourers Throughout India in about 500 words. (In your article describe any two case studies where government or non government organisations have extended any help to them.)

**2. Write the answers of the following questions:-**

- a. Meaning of sustainable development
- b Issues of sustainable development
- c Importance of sustainable development
- d Meetings/reports/ summits related to sustainable development
- e Current status of sustainable development

**COMPUTER**

**Magazine Cover Challenge (Class X - Fun & Easy with MS Word)**

Here's a project that lets you showcase your creativity with a touch of MS Word magic!

**The Challenge:** Design a Magazine Cover for a fictional magazine based on your favorite subject in school (Science, History, Literature etc.)

**What you'll need:**

A picture (related to your subject) you can insert.

A catchy Headline and Subheading.

Short blurbs or snippets about interesting articles "inside" the magazine (fictional of course!).

**Steps:**

Open a new Word document.

Insert a background image: Find a picture that represents your subject (e.g., dinosaur for Science, historical monument for History etc.).

Go to Insert tab > Pictures and choose your image.

Resize and position the image to fill most of the page.

Headline & Subheading:

Go to the Insert tab > Text Box. Draw a text box on top of your image.

Type your Headline (e.g., "Dino World: Unearthing Secrets!") in a large, bold font.

Create another text box for a subheading with a smaller font that gives a sneak peek at what's "inside" (e.g., "Discover the latest fossil finds and prehistoric puzzles").

"Articles" Inside:

Use more text boxes to create blurbs or snippets about interesting articles in your magazine.

Play with fonts, sizes, and colors to make them stand out. (e.g., "T-Rex: Friend or Foe?", "Unraveling the Mayan Calendar Mystery").

**Polish & Fun:**

Experiment with different text box shapes and add borders for a magazine-like feel.

You can even insert small clipart images (e.g., microscope for Science, quill for Literature) to add some flair.

Use your imagination!

Bonus Tip: Print your creation or share it digitally as a "real" magazine cover!

This project lets you explore MS Word's basic features while having fun with design and

showcasing your passion for your chosen subject.

**Submit your project in a stick file**

### **ENGLISH**

A Letter to God

REFERENCE TO CONTEXT:

Read the following extracts carefully and answer the questions that follow.

1. "Not a leaf remained on the trees. The corn was totally destroyed. The flowers were gone from the plants. Lencho's soul was filled with sadness. When the storm had passed, he stood in the middle of the field and said to his sons. "A plague of locusts would have left more than this. The hail has left nothing'.

- Describe Lencho's feeling as shown in the passage.
- What happened to the crop when the storm had passed?
- Find the word that means the opposite of 'restored' as used in the passage.
- What do you mean by 'hail' in the last line?

2. "God," he wrote, "if you don't help me, my family and I will go hungry this year. I need a hundred pesos in order to sow my field again and to live until the crop comes, because of the hailstorm ...."

- What help has he asked for?
- Why did he need help?
- Why did Lencho write a letter to God?
- Why were Lencho and his family in distress?

**SHORT ANSWER QUESTIONS:**

**(Answer the following questions in 30-40 words)**

- Describe the destruction caused by hailstones in Lencho's fields.
- What did the postmaster do in order to not break Lencho's firm belief/faith in the Almighty/God?
- Was Lencho surprised to find a letter with money in it? Why/Why not?
- Why did Lencho say the raindrops were like "new coins"?

**LONG ANSWER TYPE QUESTIONS:**

**(Answer the following questions in 100-120 words)**

- Describe Lencho's qualities in light of his faith in God. Do you have faith in God like Lencho? Was Lencho's reaction towards post office employees right?
- "Humanity still exists", this is what we get to know after reading 'A letter to God' in which firm faith in God of a poor farmer and helpfulness of the post office employees are aptly depicted thought. Write a paragraph on the values in it.
- How did the postmaster and post office employees help Lencho? How did he react to their help?

**DUST OF SNOW (POEM)**

**SHORT ANSWER**

- What is the Tone of the Poem Dust of Snow?
- How many symbols do you find in this poem? What is the purpose to use those symbols?

3. What does the poet want to convey through the poem 'Dust of Snow'?

OR

What is the central idea of the poem 'Dust of Snow'?

4. Why does the poet use such poetically uncommon bird and tree? What does it reflect?

5. Write a note on the setting of the poem.

6. Our attitude towards a situation evokes both negative and positive response. Analyse this with reference to the poem, 'Dust of Snow' to bring out the inherent valuable lessons.

### **FIRE AND ICE (POEM)**

#### **SHORT ANSWER**

1. What is the central idea of the poem 'Fire and Ice'?

2. What message does the poet give to the reader?

3. Comment on the ending of the poem.

4. "But if it had to perish twice"

Why does the poet use "if" in the above quotation?

5. What will the world end in?

6. Why does the poet hold with those who favour fire?

#### **LONG ANSWER**

9. Discuss how extreme behaviour can hasten the end of the world with respect to 'Fire and Ice'.

10. The poem 'Fire and Ice', carries with it very deep thematic ideas. Elaborate on these darkest traits of humanity.

### **TRIUMPH OF SURGERY**

#### **SHORT AND LONG ANSWER QUESTIONS:**

1) What was the problem with Tricki? How did Mr. Herriot cure it?

2) Excess of everything is bad. Comment in the wake of Mrs Pumphrey's love for Tricki.

3) Pen down incidences in support of values one should inculcate from Mr James Herriot.

4) How was Tricki greeted at the surgery by other dogs in the beginning? Describe the 'parting scene' between Tricki and Mrs Pumphrey's entire household staff.

5) How do you know that Tricki had an affluent life?  
"I think I know a cure for you." What was the cure?

6) Why did Mrs Pumphrey keep Tricki on that extra diet? Did it help him?  
Why was Mrs Pumphrey not able to control Tricki's diet?

7) Write character sketches of:  
a) Dr James Herriot

#### **WRITING SECTION:**

1. Write an application to your Principal requesting him/her to add more books on literature in your school library.

2. Write a story in about 200 words based on the inputs given below:

Learning to swim....enjoyed....not fully trained....pushed inside  
....started drowning.....

**GRAMMAR SECTION:**

1. Rearrange the following words to make meaningful sentences:

- a. precious gift/is a/life/from god/to us.
- b. thankful/should be/we/God/to/it/for.
- c. God/some/remember/only/people/distress/only.
- d. some/believe/in/do not/unfortunately/God.

2. Choose the best word from the options given below and complete the following passage:

The students \_\_\_\_\_ (i) talking as Miss Sarkar (ii) \_\_\_\_\_ the class room. Then in a loud voice (iii) \_\_\_\_\_ said, "Good Morning " and (iv) \_\_\_\_\_ quickly around the room. All the children (v) \_\_\_\_\_ her intently to find out what sort of a person she (vi) \_\_\_\_\_. "I suppose you (vii) \_\_\_\_\_ to know my name," she said. But (viii) \_\_\_\_\_ she could tell them, someone in the class yelled out, "You are Miss Sarkar."

3. Rearrange the following words and make sentences

- (i) are/was/were/been
- (ii) enters/entered/entering/entourage
- (iii) she/they/he/them
- (iv) glance/glanced/glancing/glance
- (v) observe/watch/watching/watched
- (vi) is/was/been/being
- (vii) wants/liked/knew/want
- (viii) after/before/later/as

4. Write the structure of all Tense Forms.

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