

MAHARSHI PATANJALI VIDYA MANDIR

HOLIDAY HOMEWORK

CLASS X

SESSION 2023-24



SUBJECT- ENGLISH

“The English language is a work in progress. Have fun with it”. –Jonathan Culver

Learn the Question and answers of the following lessons: -

The First flight

1.A letter to God.

- ❖ Fire and ice (poem)
- ❖ Dust of Snow (poem)

Footprints without feet

1. A Triumph of Surgery
2. The Thief's Story

Practice the exercises on the given topic in Grammar:-

1.Tenses

Practice writing the format of letter writing in the writing skills-

1.Formal letter writing

TOPICS FOR ONE MINUTE SPEECH (ASL)

1. Changing times
2. How to increase our immunity
3. Association of music with nature
4. Skills I learnt during pandemic
5. My Ideal
6. Unpolluted nature- lockdown-lesson learnt.
- 7.How to practice self-discipline

विषय हिंदी

"राष्ट्रीय एकता की कड़ी हिंदी ही जोड़ सकती है।" - बालकृष्ण शर्मा नवीन

1- निम्नलिखित विषयों किसी एक विषय पर 150 शब्दों का एक सारगर्भित अनुच्छेद लिखिए-

क- वर्तमान परिप्रेक्ष्य में इंटरनेट की उपयोगिता एवं आवश्यकता।

ख- देशप्रेम

2- पढ़ाए गए सभी पाठों के प्रश्न उत्तरों को याद कीजिए।

3- व्याकरण पुस्तक अथवा सैंपल पेपर की सहायता से पढ़ाए गए सभी व्याकरणिक अंशों का अभ्यास कीजिए।

4- भारत में होने वाले G -20 शिखर सम्मेलन विषय पर लगभग 60 शब्दों में एक आकर्षक विज्ञापन तैयार कीजिए।

SUBJECT- MATHEMATICS

"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers".

- Shakuntala Devi, Indian writer and mental calculator

Do in Activity notebook

1. Draw the graph of the following polynomial according to the roll numbers allotted and the questions based on them (on graph sheet)

Roll no. - 1-8 $f(x) = x^2 - x - 6$

Roll no. - 9-16 $f(x) = x^2 + 1$

Roll no. - 17-24 $f(x) = -3x^2 + 2x - 1$

Roll no. - 25-32 $f(x) = 3 + 2x - x^2$

Roll no. - 33-40 $f(x) = x^2 - 4x + 4$

Roll no. 41-till end $f(x) = -4x^2 + 4x - 1$

Ques1. Geometrically and mathematically state your allotted curve opens in which direction.

Ques2. State the zeros of your allotted curve geometrically and mathematically.

Ques3. Mention the coordinates of the zeros if it is in your allotted curve.

Ques4. Write the coordinates of the vertex of your allotted curve.

Ques5. Mention the reason of number of zeros mathematically and geometrically only allotted of your curve.

Give a brief report of activity allotted to you.

2. Establish relationship between the zeros and constant coefficient of a three-degree polynomial or a Cubic polynomial. Also solve the question based on cubic polynomial. Find the zeros of the polynomial $f(x) = t^3 - 2t^2 - 15t$ by factorization method and verify the relations between the zeros and the coefficients.

3. Write a short note on the mathematician who invented Arithmetic Progression. Also write the formula for -

Ques1. General term or an n^{th} term of A, P

Ques2. n^{th} term of an A.P from the end.

Ques3. Sum of n terms of an A.P

Ques4. Finding the desired term when the sum of n terms of an A.P is given I.e. to find an when S_n is given.

Ques5. Formula for 1^{st} negative numbers.

Ques6. Formula for middle term of an finite A.P.

4. Solve these questions:

Ques1. Which term of the sequence 114, 109, 104.....is the 1^{st} negative term.

Ques2. If the sum of 1^{st} n terms of an A.P is n^2 then find its 10^{th} term.

Ques3. Write the 5^{th} term from the end of the A.P 3, 5, 7, 9.....201.

Ques4. If 9^{th} of an A.P is zero, then its 29^{th} and 19^{th} terms are in what ratio.

Ques5. Find the middle term of the following A.P's

(a) 6,3,20.....216

(b) 7,13,19.....241.

SUBJECT: SCIENCE

“Everything is theoretically impossible, until it is done.” – Robert A. Heinlein

BIOLOGY

STATE- ARUNACHAL PRADESH

CHAPTER FOR INTERNAL ASSESSMENT- MANAGEMENT OF NATURAL RESOURCES

General instructions-

- Each student will do the activity individually.
- Make a brochure on the topics given below.
- You can paste pictures, draw drawings or make a collage.
- Write your-name, class, section and roll no. on the brochure.
- Make a brochure on the following topics-

TOPICS FOR INTERNAL ASSESSMENT-

- ❖ Roll no-1-10 - State of forest and wildlife.
- ❖ Roll no-11- 20- Consequences of deforestation on local people.
- ❖ Roll no- 21-30- Participation of local people in management of forest.
- ❖ Roll no- 31-40- Traditional rainwater harvesting systems and their current condition.
- ❖ Roll no- 41-last- Causes of pollution of river water and diseases people suffer from.

PHYSICS

1. Solve 20 numerical from any source on the chapter of ELECTRICITY in your class work copy.
2. Study the chapter Magnetism from the book and list 10 important points in your class work copy.
- 3 Draw all circuit symbols on a sheet of white paper and then draw a complete circuit diagram used to verify ohm' s law.

SUBJECT- SOCIAL SCIENCE

“History can give us a fuller understanding of ourselves, and of our common humanity, so that we can better face the future”. – Robert Penn Warren

HISTORY

Do the following questions in your assignment notebook.

1. Write a note on any ONE
 - Unification of Italy

OR

- Unification of Germany
1. Explain the picture of Frédéric Sorrieu in your own words.
 2. Write a note on the female allegory Germania.
 3. “Culture played an important role in creating the idea of the nation in Europe.” Support the statement with examples.

Go through the portions covered in class.

GEOGRAPHY

TOPICS FOR INTERNAL ASSESSMENT

General instructions-

1. Each student will do the activity individually.
2. Make a **PROJECT** (maximum 5-6 pages)
3. Last date of submission is **15 July 2023**
4. Topics for the *PROJECT*
 - ❖ **Roll no-1-5** - Consumer awareness
 - ❖ **Roll no-6- 10**-Social issues
 - ❖ **Roll no- 11-15**- Sustainable development, need of an hour.
 - ❖ **Roll no-16-20**- Hydraulic structures in Ancient India.
 - ❖ **Roll no- 21-25**- Traditional Rainwater Harvesting systems, which are Practiced in different parts of India.
 - ❖ **Roll no- 26-30**- Sacred Grove- A Wealth of diverse and rare flora and fauna.
 - ❖ **Roll no- 31- 35**- Community and Conservation
 - ❖ **Roll no - 36- till last roll no.** - Negative factors that cause fearful depletion of the flora and fauna

NOTE: - It should be hand written and supported by relevant pictures and data in **Assignment notebook** .

SUBJECT: INFORMATION TECHNOLOGY

“Let’s go invent tomorrow instead of worrying about what happened yesterday.” – Steve Jobs

Note: The answers to all step based as well as descriptive questions should be written neatly and properly only in the Theory Notebook,

Q.1. Define a Database? Explain at least 5 advantages of using a Database.

Q.2. Explain the different types of Keys in a Database Table showing examples of each in a table.

Q.3. Write the steps for creating a table using Table Wizard.

Q.4. Describe the various Field Types (Data types) in Open Office Base.

Q.5. Consider the Structure of an Employee table as given below:

Field Name	Data Type
Emp_Id	_____
Emp_Name	_____
Emp_Father_Name	_____
Emp_Address	_____
Emp_Salary	_____
Emp_DateOfBirth	_____
Emp_IsMarried	_____
Emp_Designation	_____
Emp_Branch_Name	_____
Emp_Mobile_No	_____

- (i) Determine the appropriate Data types for each of the above mentioned fields in the Employee Table and fill it clearly in the blanks for each field.
- (ii) Also mention which field must be chosen as the Primary Key? Give reasons for your choice.