SUBJECT: MATHEMATICS

Q.1 Simplify: $20\left(\sqrt[3]{\frac{1}{625}}\right)$

Q.2 Simplify: $\frac{\sqrt{a^2-b^2}+a}{\sqrt{a^2+b^2}+a}+\frac{\sqrt{a^2+b^2}-b}{a-\sqrt{a^2-b^2}}$

Q.3 Find the values of a and b if $\frac{\sqrt{7}-1}{\sqrt{7}+1}-\frac{\sqrt{7}+1}{\sqrt{7}-1}=a+b\sqrt{7}$

Q.4 Simplify: $\frac{x^{a+b}.x^{b+c}\,x^{c+a}}{\left(x^a.x^b\,x^c\right)^2}$

Q.5 Solve the equation: $2^{2x+2}=2^{3x-1}$

Q.6 If the polynomial $2x^3+bx^2+3x-5$ *and* x^3+x^2-4x+b leave the same remainder when divided by x – 2 find the value of b.

Q.7 For what value of k if (x-3) is a factor of $k^2x^3-kx^2+3kx-k$

Q.8 Factorize the polynomial: $(p^2+4p)^2+21(p^2+4p)+98$

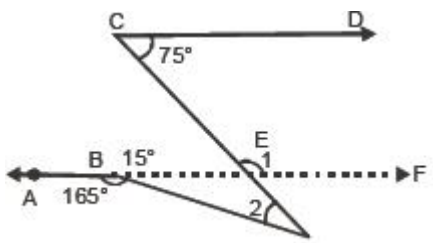
Q.9 Draw the graph of 3x – 4y = 3. Also check whether the points (5, 3), (1, 0) and (9, 6) lie on the graph.

Q.10 If one angle of the triangle is equal to the sum of the other two angles, show that the triangle is a right angled triangle.

Q.11 The angles of a triangle are arranged in ascending order of magnitude. If the difference between two consecutive angles is 10°, find all the three angles.

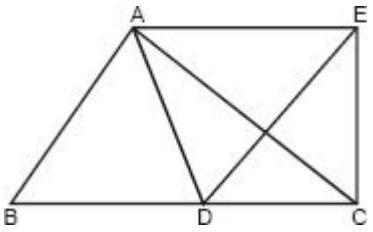
Q.12 ΔABC is right angled at A and AL ⊥ BC. Prove that ∠BAL = ∠ACD.

Q.13 In the following figure AB || CD. Find the measure of ∠2.



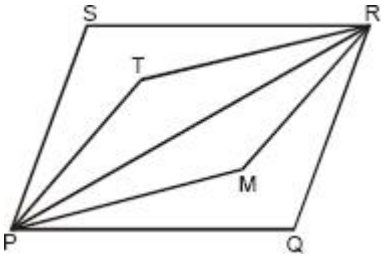
Q.14 How many triangles can be drawn having its angles as 45°, 64° and 72°? Give reason for your answer.

Q.15 In the given figure, AB = AD, AC = AE and ∠BAD = ∠EAC, then prove that BC = DE.



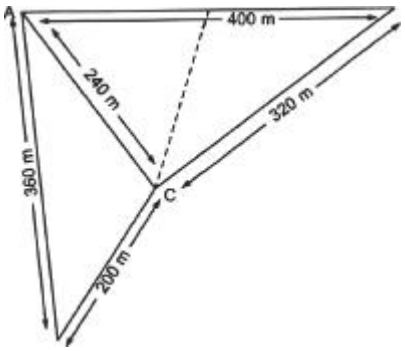
Q.16 In the given figure, T and M are two points inside a parallelogram PQRS such that PT = MR and PT || MR. Then prove that

(a) ΔPTR ≅ ΔRMP (b) RT || PM and RT = RM



Q.17 The perimeter of a square is (4x+20) cm. What will be the length of its diagonal?

Q.18 A farmer has a triangular field with sides 240 m, 200 m and 360 m, where he grew wheat. In another triangular field with sides 240 m, 320 m and 400 m adjacent to the previous field, he wanted to grow potatoes and onions (see figure). He divided the field into two parts by joining the midpoint of the longest side to the opposite vertex and grew potatoes in one part and onions in the other part. How much area (in hectares) has been used for wheat, potatoes and onions?



SUBJECT:PHYSICS

- **Solve all the solved examples and exercise questions of Chapter 8 and 9.**

SUBJECT:CHEMISTRY

Q1. Arrange the following in decreasing order of force of attraction: Water, Salt, Oxygen, and give reasons.

Q2. Give reason for the following observations.

(a) Naphthalene balls disappear with time without leaving any solid.

(b) We can get the smell of perfume sitting several metres away.

(c) Water at room temperature is a liquid.

(d) On a hot sunny day, people sprinkle water on the roof or open ground

(e) Steam produces more severe burns as compared to boiling water

Q3. Calculate the concentration of 75 g salt present in 350 g of solution.

Q4. A solution contains 56 gm of Copper Sulphate in 244 gm of water. Calculate the concentration in terms of mass by mass percentage of the solution.

Q5. A solution contains 44g of glucose in 225g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

Q6. Calculate the amount of water required to prepare 500g of 3.5% solution of lead nitrate.

Q7. You are provided with a mixture of sand, sodium chloride and ammonium chloride. Suggest an activity to separate them with well labeled diagram.

Q8. Compare in the tabular form, the properties of solids, liquids and gases with respect to: (i) Shape and volume (ii) Compressibility (iii) Intermolecular space.

SUBJECT:BIOLOGY

1. State any two conditions essential for good health.

2. State any two conditions essential for being free of disease.

3. Are the answers to the above questions necessarily the same or different? Why?

4. List any three reasons why you would think that you are sick and ought to see a doctor. If only one of these symptoms were present, would you still go to the doctor? Why or why not?

5. Why are we normally advised to take bland and nourishing food when we are sick?

6. What are the different means by which infectious diseases are spread?

7. What precautions can you take in your school to reduce the incidence of infectious diseases?

8. What is immunisation?

9. Mention the five kingdom classification proposed by Whittaker.Explain them in brief

10.Explain the structure and functions of various types of connective and muscular tissue.

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SOCIAL SCIENCES

SUBJECT: DISASTER MANAGEMENT

TOPIC:EARTHQUAKE

Objectives:

1. The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective. It should also help in enhancing the Life Skills of the students.
2. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report.
3. If required, students may go out for collecting data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.

Topics to be covered under the project:

- What is an Earthquake?
- What Causes an Earthquake?
- What to do During an Earthquake?
  Before the disaster
  Do's and Don'ts
  After the disaster
- What are the Effects of an Earthquake?
- What is the difference between seismograph and Richter scale?
- Protection Against Earthquake.
- What is an earthquake zone?
- What are earthquake zones in India?

INDIVIDUAL FORMAL HANDWRITTEN REPORT
INSTRUCTIONS AND GUIDELINES TO ON HOW TO WRITE THE PROJECT:

- The other side of the paper i.e. the left side should be used for pasting pictures, newspaper cuttings etc.
- However, lines to write/pictures/watermarks/borders can be printed.
- Cover page also has to be hand written.
- You can use charts/ coloured sheets/ any other paper.
- Cover page showing project title, student information, school and year.
- List of Content or Index
- Acknowledgement Preface – (In this section you may thank the people who have helped you in writing the report)
- Introduction – The Introduction should present the aim of the project and the background of investigation. It should explain why the project is important and interesting.
- Topics with suitable heading
- Conclusion – What have you understand about the project, its importance etc.
- Bibliography – This includes references to websites and books / articles consulted while writing the report.
- All photographs and sketches should be labeled and related to the theme.
- Question based on the project report will be asked as Viva test.

Viva test on: 12/9/2021

NOTE: Kindly be adhere to the submission date: 14/9/2021

S. No.	Subjects	Assignments
1	Literature	Things Fall Apart - Chinua Achebe
2	Literature	A Slumber Did My Spirit Seal - William Wordsworth {Beehive}
3	Literature	Read Chapters from the Text Books
4	Advanced Writing Skills	Write a story using the hint given below:
5.	Advanced Writing Skills	Describe Idioms

GENERAL INSTRUCTIONS

1. "***Today a reader, tomorrow a leader." – Margaret Fuller***
   Read the book "Things Fall Apart" - Chinua Achebe and act as a critic through your review.{Word Limit 200—250}

2. Read the poem, "**A Slumber Did My Spirit Seal**" **- William Wordsworth**& make notes on it. {Word Limit 200—250}

3. **Write a story using the hint given below:** {Word Limit 200—250}
   Tom and his friends take a boat trip to a tiny, vacant, off-limit island for a night of celebration. When the sun goes down, they realize just how occupied the island is and there's a reason it's off-limits……

4. Read the story **'A House Is Not a Home**' from your textbook 'Moments' and '**The Bond of Love'** from the text 'Beehive'. Then present the main themes and characters of the stories using a **web chart**. The distinctive aspects must be organized, such that a person who is not familiar with the lesson should be successful in getting a gist by looking at it. Do not write the summary.

5. **Describe the difference of an idiom and proverb and go ahead to describe the following idioms/proverbs:**

   (a) jump the gun, (b) bark up the wrong tree, (c) mind your p's & q's, (d) it takes two to tango
   (e) a leopard can't change its spots, (f) **Can't make an omelet without breaking some eggs**
   (g)**Don't count your chickens before they hatch (h) Biting off more than you can chew**

Note:-The assignments must be done in the English Language Notebook or pin the sheets into your notebook. Please DO NOT submit on loose sheets/files/folders· The homework must be presented neatly and creatively.

SUBJECT: URDU

۱۔'جنگلات کی اہمیت 'یا'مذہبی تہوار'پردوسو الفاظ کامضمون لکھیے۔

۲۔اپنے دوست کے نام خط لکھ کر حیدرآبادگھومنے کاپروگرام بنائیےاوریہاں کے تاریخی مقامات کاذکر کیجیے۔

I- Prépare ta fiche d'identité.

Nom :
Prénom :
Date de naissance :
Nationalité :
Domicile :

II- Que représente ces abréviations :

SNCF

……

TGV

……

PDG

……

ONV

……

OMS

……

III- Conjuguez les verbes suivants: au present

1 /Parler

Je	Nous
Tu	Vous
Il	Ils
Elle	Elle

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2/ remplir.

Je	Nous
Tu	Vous
Il	Ils
Elle	Elle

IV- Donnez les nationalités:

Pays	Masculin	Féminin
sSénégal		
Canada		
Inde		
France		
Angleterre		
Etas-Unis		

V- Conjuguez <u>au future proche</u> les verbes:

1/ Parler

Je	Nous
Tu	Vous
Il	Ils
Elle	Elle

2/ choisir

Je	Nous
Tu	Vous
Il	Ils
Elle	Elle

3/ entendre

Je	Nous
Tu	Vous

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Il	Ils
Elle	Elle

VI-Qu'est-ce qu'on mange :

1/Au petit déjeuner

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2/Au déjeuner

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3/Au gouter

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4/Au diner.

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Alif Arabic School, Riyadh

VII- Qu'est-ce que c'est la basilique de Fourvière.

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VIII- Qu'est-ce que c'est le théâtre de guignol ?

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……

IX- Prépare une publicité pour visiter une ville touristique en Inde.

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SUBJECT: ARABIC

1- اكتب موضوعا عن الحديقة ما لايقل عن ١٠ جمل
2- اكتب الفرق بين محطة القطار في المدن والقري في خمس جمل لكل واحدة
3- اكتب عن الحياة في القرية في خمس جمل

SUBJECT: TAMIL

1. Write an essay on sustainable agriculture.
2. Write an essay on advantages and disadvantages of social media.
(Minimum four pages each, Include pictures)

SUBJECT: HINDI

1- महादेवी वर्मा पर एक प्रोजेक्ट तैयार कीजिए तथा उनके द्वारा रचित ' गिल्लू' पाठ की समीक्षा करते हुए एक लेख भी लिखिए।
2- एक पिता का अपने पुत्र को परीक्षा देने से पूर्व ३०-४० शब्दों में संदेश लिखिए।
3- जातिवाद (Racism) के विरुद्ध २०-३० शब्दों में नारा लिखिए।
4-पठित पाठों की पुनरावृत्ति कीजिए।
Note- support your work with relevant pictures and drawings
Following must be included in the project
Index(अनुक्रमणिका)
Acknowledgement (आभारोक्ति)
Introduction (प्रस्तावना)
Refrences (संदर्भ सूचि)

SUBJECT: MALYALAM

ഉപന്യാസം തയ്യാറാക്കുക .

1. വളരുന്ന കേരളീയതയും അകലുന്ന നന്മയും
2. വിദ്യാഭ്യാസവും കമ്പ്യൂട്ടറിന്റെ സ്വാധീനവും

കത്ത് തയ്യാറാക്കുക .

1. കേരളത്തിൽ വൈദ്യുതി ക്ഷാമം മൂലം ജനങ്ങൾ അനുഭവിക്കുന്ന ബുദ്ധിമുട്ടിനെ കുറിച്ച് മുഖ്യമന്ത്രിക്ക് ഒരു കത്ത്എഴുതുക .
2. മാലിന്യത്തിൽ നിന്ന് എങ്ങിനെ മുക്തിനേടാം എന്ന് വിശദീകരിച്ചുകൊണ്ട് പ്രമുഖ പാത്രത്തിലേക്ക് കത്ത്തയ്യാറാക്കുക .

പത്രവാർത്ത തയ്യാറാക്കുക.

1. മദ്യപിച്ചെത്തുന്നവർ പൊതുനിരത്തിൽ വലിയ പ്രശ്നങ്ങൾ ഉണ്ടാക്കുന്നത് നമ്മൾ കണ്ടിട്ടുണ്ട് .അത്തരക്കാർക്കുഎതിരെ ശക്തമായ നടപടികൾ ഉണ്ടാകുന്നില്ല . ഇത്തരം ഒരു സംഭവം വാർത്തയുടെ രൂപത്തിൽ എഴുതുക .

2. നിങ്ങളുടെ വിദ്യാലയത്തിലെ ആർട്സ് ക്ലബ് ന്റെ നേതൃത്വത്തിൽ അഞ്ചു ദിവസം നീണ്ടു നിൽക്കുന്ന മലയാളക്ലാസിക് ചിത്രങ്ങളുടെ പ്രദർശനം സംഘടിപ്പിക്കാൻ തീരുമാനിച്ചു എന്ന് കരുതുക .
ഈ സംഭവത്തെ ഒരു പത്രവാർത്തയാക്കി മാറ്റുക .