

GOBINDGARH PUBLIC SCHOOL
HOLIDAYS HOMEWORK (2019-20)
CLASS-X

ENGLISH

PROJECT: -

(10 marks)

- Write about the life and achievements of the Arjuna Awardee Olympic Athlete-Hima Das-nicknamed- 'The Dhing Express'. How is her life an inspiration for all?

VALUE BASED QUESTIONS: -

(5 marks each)

- "Wisdom rescues when strength fails". Discuss the statement in the light of the story 'The Midnight Visitor'.
- "Paper has more patience than people". Discuss with reference to the chapter 'From the Diary of Anne Frank'.
- **NOTE:** Students are required to submit the holiday's homework on assignments sheets

MATHEMATICS

1. Find the prime factorisation of 45470971 [1]
2. If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - 2x + 3$, find a polynomial whose roots are $\frac{\alpha-1}{\alpha+1}, \frac{\beta-1}{\beta+1}$ [2]
3. What must be added to $f(x) = 4x^4 + 2x^3 - 2x^2 + x - 1$ so that the resulting polynomial is divided by $g(x) = x^2 + 2x - 3$? [3]
4. Find k so that $x^2 + 2x + k$ is a factor of $2x^4 + x^3 - 14x^2 + 5x + 6$. Also find all the zeroes of the two polynomials. [3]
5. Solve the following system of linear equations graphically:
 $4x - 5y - 20 = 0$
 $3x + 5y - 15 = 0$
Determine the vertices of the triangle formed by the lines representing the above equations and the y -axis. [4]
6. Find the largest number that will divide 398,436 and 542 leaving remainders 7, 11 and 15 respectively. [3]
7. If the HCF of 657 and 963 is expressible in the form $657x + 963 \times -15$, find x . [3]
8. There is a square field whose side is $44m$. A square bed is prepared in its centre leaving a gravel path all-round the flower bed. The total cost of laying the flower bed and gravelling the path at ₹2.75 and ₹1.50 per square metre respectively, is ₹4904. Find the width of the gravel path. [4]
9. At t minutes past 2 pm the time needed by minutes hand and a clock to show 3pm was found to be 3 minutes less than $\frac{t^2}{4}$ minutes. Find t . [3]
10. A car moves a distance of 2592 km with uniform speed. The number of hours taken for the journey is one - half the number representing the speed, in km/hr. Find the time taken to cover the distance. [4]

ACTIVITIES

1. To obtain the conditions of Consistency/Inconsistency for a Pair of Linear Equations in Two Variables by Graphical method.

To verify that the given sequence is arithmetic progression by paper cutting and pasting method

SCIENCE

INSTRUCTIONS:

1. Use simple assignment sheets with spiral binding to attempt Q1.

2. Answers to Q1 should not exceed 150 words.

1. Answer the following questions in about 100-150 words.

1. List the modern techniques used to prevent corrosion and rancidity. Explain in detail. (5)
2. A patient with kidney failure was admitted to the hospital and was treated by the doctors through the process in which blood was filtered out through a special process. (5)
 - a) Name the process used for patient by the doctors.
 - b) Why is it necessary to use this process?
 - c) Write any four circumstances in which this technique is required.

2. Write the following experiments from your lab manual in your practical file.

1. To perform and observe following reactions and classify them into:
 - a) Combination reaction
 - b) Decomposition reaction
 - c) Displacement reaction
 - d) Double displacement reaction
2. To prepare the temporary mount of leaf peel.
3. To verify Ohm's law.

SOCIAL SCIENCE

GEOGRAPHY

All students are required to do a project for which ten marks are allotted in the final assessment. This project calls for work during the vacation. Detailed instructions as to how to go about the job have been given. They must begin with collecting relevant information, organize it during their summer vacation. Final writing needs to be done in the school. The Draft report has to be submitted within two weeks of school re-opening. Students are required to choose a topic from the list of four topics given.

PREPARATION AND SUBMISSION OF PROJECT REPORT

Following essentials are required to be fulfilled for its preparation and submission-

1. The total length of the project report will not be more than 8-10 written pages of A-4 size paper).
2. The project report will be handwritten and credit will be awarded to, use of maps, graphs and articles from newspapers and magazines; for original drawings, illustrations, photographs, artworks, good layout and creative use of materials. (One should not cut pages from costly magazines such as National Geographic etc.
3. The students should prepare a draft before finalizing the report. Final writing should be done in the school
4. The project report will be presented in a neatly titled cover page or paper folder (Plastic folder should not be used.)

The project report will be developed and presented in this order

- Cover page showing project title, student information, school and year.
- List of contents with page numbers.
- Project Overview: Purpose, Aim, Methodology and experiences while doing the project.
- Chapters with relevant headings.
- Summary and conclusions based on findings.
- Planning and activities to be done during the project, if any giving a calendar of activities.
- All the photographs and sketches should be labelled and acknowledged.

Evaluation of Project under the following guidelines:

Str. No	Aspects	Marks
1	Content, Accuracy and Originality	3
2.	Presentation and creativity- written work, Use of Maps, Graphs, Sketches.	3
3	Process of project completion: Initiative, involvement and Punctuality	2
4	Viva/presentation or written test for content assimilation	2

Qualities of Good Cover Page:

The cover page must have the following qualities:

1. Hand drawn and designed using pictures and slogans which indicate clearly the title of the project.
2. Catchy titles
3. Pictures and information relevant to the topic covered in the project
4. The details of the school's name and address, class and year.
5. Student's full name.

Topic of the Project work - Natural Hazards and Disasters

Natural Hazards and Disasters

A disaster happens when a hazard impacts on the vulnerable population and causes damage, casualties and disruption. Any hazard – flood, earthquake, cyclone and landslide which is a triggering event along with greater vulnerability (inadequate access to resources, sick and old people, lack of awareness etc.) would lead to disaster causing greater loss to life and property. Although natural calamities cannot be averted but many suitable measures can be taken to lessen the impact of these disasters. The effective response to a disaster includes timely information and early warning of potential hazards. Countries are continually improving their national emergency and early warning capabilities.

For your Project work-

Provides an overview for a range of natural disasters and try to address following questions in your project work. This would be useful in understanding and organizing the material related to the topic. Apart from this you can choose any one type of natural disaster or take up a case study (an event of natural disaster) to know about them in detail.

What is a Natural disaster?

Difference between Hazard and Disaster

Differentiate Natural Disasters and Manmade Disasters with examples Classification of Natural Hazards and Disasters -

1. Geological or geophysical.
2. Hydrometeorological.
3. Biological – Name different types of disasters under each category

What are the causes of natural disasters and what effect do they have on the earth? How does it affect people, property, land and economy?

What might be responsible for the apparent increase in recent years of the number of natural disasters and the economic losses due to natural disasters?

Where do these Natural disasters usually often occur?

How can each type of disaster be predicted and/or mitigated?

The ways we can prepare ourselves in advance to cope with disasters?

Explain the new technology that allows scientists to track and know when and where natural disasters will

occur.

List some world's worst disasters/ List some worst disasters in our country

What kind of disasters is common in your country? Where do these usually often occur?

What is meant by Disaster Management? What are the different stages of Disaster management?

1. Pre disaster.
- 2 During disaster and
- 3.Post disaster.

HISTORY & POLITICAL SCIENCE

GENERAL INSTRUCTIONS:

1. Do the following home work on single lined sheet.
2. Do the following homework form History NCERT BOOK and Political respectively.
3. Write your answer in 150 words limit

History

- 1 Write a detailed note on Gutenberg's Press.
- 2 Write some technological changes in printing press. (5)

POLITICAL SCIENCE

- 1 what are Pressure Groups? Differentiate between Pressure Groups and Political parties. (5)

HINDI

1. स्मार्ट फ़ोन के बढ़ते प्रयोग के कारण रिश्तों में बहुत खटास आ रही है | स्मार्ट फ़ोन के उचित उपयोग पर एक परियोजना कार्य तैयार कीजिए | 10
2. नाक मान-सम्मान व प्रतिष्ठा का द्योतक है | यह बात पूरी व्यंग्य रचना में किस तरह उभरकर आई है ? अपने शब्दों में लिखें | 5
3. 'उत्साह' कविता समाज में उत्साह और क्रांति का भाव जाग्रत कर परिवर्तन लाने और नवजीवन का संचार करने का सन्देश देती है | हम किन और माध्यमों से उत्साह प्राप्त कर सकते हैं जो हार और निराशा के समय हमें उत्साह से भर दें | उदाहरण सहित अपने शब्दों में लिखें | 5

PUNJABI

1. ਗੁੰਮ ਨੇ ਰਸੋਈ ਵਿੱਚੋਂ ਕਵਿਤਾ ਦੇ ਅਧਾਰ ਤੇ ਪੁਰਾਤਨ ਸਭਿਆਚਾਰ ਦੀਆਂ ਅਲੋਪ ਹੋ ਰਹੀਆਂ ਵਸਤੂਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ | ਇਸ ਨਾਲ ਸਬੰਧਿਤ ਤਸਵੀਰਾਂ ਵੀ ਲਗਾਓ |
2. ਦਿੱਲੀ ਦੇ ਜਲ ਬੋਰਡ ਅਧਿਕਾਰੀ ਨੂੰ ਆਪਣੇ ਇਲਾਕੇ ਵਿੱਚ ਪਾਣੀ ਦੀ ਘਾਟ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਬੇਨਤੀ ਪੱਤਰ ਲਿਖੋ।
3. ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਮੋਬਾਇਲ ਦੀ ਵਧ ਰਹੀ ਵਰਤੋਂ ਬਾਰੇ ਆਪਣੇ ਵਿਚਾਰ ਲਿਖੋ। 10+5+5=20

INFORMATION TECHNOLOGY

M:M=20

Note: Write and draw these activities on the A4 Assignment white sheets neatly.

1. Draw the diagram of all Network Topologies. (5)
2. Write the steps to create blogs by using websites blogsme.com or blog.com. (5)

PROJECT

3. Create a document in word on any topic of your choice.(Minimum there should be 20 lines) (10)

Format the document with various fonts (minimum 12, maximum 15) and margins (minimum1, maximum2). The document should include:

- a) A bulleted or numbered list.
 - b) A table containing name, address, basic pay, department as column heading.
 - c) A picture of Lion using clipart gallery.
 - d) A shape and add text in that.
 - e) A header with student name, Roll No., Class & Date.
 - f) A footer with page number.
- ❖ Write the steps of all the above used options in the document.
 - ❖ Perform all the above activities on separate A4 sheets.

ART AND CRAFT

1. COVER THE FILE AND DECORATE IT.
2. DRAW RADHA KRISHAN/GANESH JI IN ABSTRACT WITH COLOURS