G.D. Goenka Public School, Sirsa
Holiday Engagement- 2020-21
CLASS IX

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ENGLISH

Dear Students

   With summer vacation round the corner, let's prepare ourselves not just for relaxation but also to utilize the given time in creative and constructive ways. It is that time of the year again when we can do things which were unable to do during the regular routine days.

- Read some good books to enhance your language and communication skills.
- "A healthy mind lives in a healthy body". Indulge in some outdoor and indoor sport and to channelize energies constructively.
- Watch different informative channels like 'The National Geographic', 'Animal Planet' etc.
- Do all the daily chores yourself and appoint a specific time to do homework every day.
- Explore the culture and heritage of your city by visiting heritage sites like monumnents and peep into the rich history.

 The Home work should be done as per the instructions given below:

  For English, the students are required
 (1) to make a model or a chart (on any one):
   (a) Famous Authors and their work
   (b) Poetic Devices: Contronyms (Words with Contradictory meaning)
   (c) Commonly misspelled words in English

(2) Make a poster on 'River Side' on A3 Sheet

(3) Collect any five news items on ' Environmental issues' posts them in your English Register and Comment

(4) Write an Original and creative Composition (Poems/ articles/Story etc) for the School Magazin Submit it Printed on the A4 Sheet

(5)   **(a)** Read any book by J.K Rowling and prepare a book Jacket using an A3 Sheet.
       (b) Make a Collage of the author with the date of birth on the Cover page. Write a Quote of the Author

(6) Suggest Movies to be seen during Summer Vacations:
       * God must be Crazy part I & part II
       * The Blue Umbrella
       * The Boss Baby
       * Top Story

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HINDI

रचनात्मक लेखन

1.औपचारिक पत्र लेखन -

क) पुस्तकालय में हिंदी कहानियों और कविताओं की अधिक पुस्तकें मँगवाने के लिए प्रधानाचार्या को आग्रह करते हुए पत्र लिखिए ।

ख) कोरोना वायरस संक्रमण की भयावह स्थिति को देखते हुए , उससे निपटने के लिए बाज़ार , चौक -चौराहों एवं पार्कों में जनता कर्फ्यू की समुचित व्यवस्था हेतु जिलाधिकारी को पत्र लिखिए ।

2. <u>अनुच्छेद लेखन -</u>

   क) लॉकडाउन का अर्थव्यवस्था पर प्रभाव

   ख) ऑनलाइन एजुकेशन की महत्ता

   ग) प्रकृति व मानव के बीच बढ़ता असंतुलन

   घ) 21 जून (योग दिवस एवं स्वास्थ्य)

3. कविता 1,3 व पाठ 1,2 (स्पर्श) तथा पाठ 1 (संचयन) की दोहराई करें ।

4. COVID -19 एवं लॉकडाउन के दौरान पैदा हुई समस्याओं व उनके समाधान के लिए स्वनिर्मित (स्वयं के द्वारा लिखी) कविता लिखें ।

Note- उपर्युक्त लेखन कार्य fair notebook में करें ।

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MATHEMATICS

GUIDELINES FOR THE ACTIVITY :

EACH STUDENT MUST PREPARE AND SUBMIT A PROJECT FROM **ANY ONE** OF THE TOPICS MENTIONED BELOW. THE INSTRUCTIONS ARE AS FOLLOWS

* The project can be hand-written with a minimum 8 pages. Credit will be awarded to originality, illustration and creative use of materials. Cover page should contain the title of the project and student's information.

THE TOPICS ARE AS FOLLOWS :
  (1) Mathematics in our daily life.
  (2) The universal language of Mathematics.
  (3) Change in Mathematics (From ancient times to 20th centaury)

Practice questions (CHAPTER- 1 NUMBER SYSTEM)

1. Write 5 rational numbers between $\frac{1}{5}$ and $\frac{2}{5}$

2. Write 5 rational numbers between $\frac{1}{2}$ and $\frac{1}{3}$

3. Represent $\sqrt{6}$ by spiral way.

4. Represent $\sqrt{85}$ on number line.

5. Express $0.\bar{4}$ in the form of $\frac{p}{q}$

6. Express $0.\overline{48}$ in the form of $\frac{p}{q}$

7. Express $0.5\bar{6}$ in the form of $\frac{p}{q}$

8. Repersent $\sqrt{7.8}$ on number line.

9. If $\frac{\sqrt{5}+2}{\sqrt{5}-2} = a + b\sqrt{5}$ then find a and b.

10. Simplify (i) $(\sqrt{3} + \sqrt{7})^2$ (ii) $(5 + \sqrt{2})^2$ (iii) $(5\sqrt{3} + 2\sqrt{2})^2$ (iv) $(7 + \sqrt{2})(7 - \sqrt{2})$

Practice questions (CHAPTER -2 POLYNOMIALS)

1. Find zeroes of the polynomial (i) $5x + 4$ (ii) $9x$ (iii) $7x - 21$

2. Factories $8x^3 + 27y^3 - 216z^3 + 108xyz$

3. Factories $x^3 - 23x^2 + 142x - 120$

4. Factories $6x^2 + 17x + 5$

5. Simplify without calculating the cubes

$$(x - y)^3 + (y - z)^3 + (z - x)^3$$

6. Find the remainder when $x^4 + x^3 - 2x^2 + x + 1$ is divided by $x - 1$

7. Write in expanded form (i) $(3a - 4b)^3$ (ii) $(2a + 7b)^3$ (iii) $125a^3 - 216$

   (iv) $49x^2 - 64$

8. Evaluate using identity (i) $(102)^3$ (ii) $(49)^2$ (iii) 102×98

9. Write a monomial of degree 23 and a binomial of degree 100

10. Expand using identity $(4a - 2b - 3c)^2$

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SCIENCE

BIOLOGY

A. Complete assignment worksheet of chapter Food Resources Plants in biology register.

B. Make power point presentation on given topics, make minimum 8 slides and maximum 10 slides, including pictures, videos and examples related to the topic.

The first slide (format) of your PPT presentation should be as follows:-
- NAME
- ROLL NO. & CLASS WITH SECTION
- TOPIC
- DATE

i. The first topic is 'Why Do We Fall ill?'

Read your textbook and other resources from the internet to do the comparative study of some of the myths associated with the spread of diseases, Cancer and COVID-19.

Make your own table comparing and explaining about the myths associated with Cancer and COVID-19, their mode of transmission and their symptoms.

What role does immunity play in prevention of these two diseases?

ii. The second topic is 'Osmosis'.

The following points have to be written and used as guidelines to do the given activity:

What is meant by Osmosis?
Factors on which it depends.
Activity- To study osmosis by raisins or apricots.

Method :- **1)** Take 5-6 raisins or apricots and keep them in a bowl having some water for 3-4 hours.

2) Take out these raisins/ apricots and keep them in a bowl having salt (2 tea spoons) mixed with water.
- Now record your observation, in both the cases, in a tabular form.
- Write the conclusion of the activity also.
- Click your 2- 3 pictures while doing this experiment and upload in your PowerPoint presentation.

Note-Your work will be judged on the following parameters:

S.No.	Aspects	Marks
1	Content accuracy & originality	2
2	Creativity	2
3	Presentation	1

C. Draw biogeochemical cycles
  Nitrogen cycle

  Carbon cycle

  Oxygen cycle

  Water cycle

Draw on A-4 size coloured sheet and write a note on importance of each cycle in nature (50 words)

CHEMISTRY

A) Perform activity 1.1 given on page 1 of the NCERT .

This activity does not require an elaborate experimental setup and can be performed using simple items from the kitchen.

Students it's been a long time since you wore your school uniform. So all of you, get a picture of yours clicked with the experimental set up for the activity. Paste this picture on A-4 size sheet on which you have recorded the activity. You are also required to write down this activity on the A-4 size sheet (not more than two pages).The description of this activity should include main apparatus and materials required, procedure, observations and conclusion.

Note: Students are also required to Complete writing all experiments of Physics, Chemistry and Biology in the prescribed practical files except observation table and calculations,(if any).

Physics: Experiment 1 to 4
Biology: Experiment 1 to 5
Chemistry: Experiment 1 to 6

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SOCIAL SCIENCE

GEOGRAPHY

1. Prepare a flow chart on different types of important soils of India on the basis of:
   a. Soil type
   b. Formation
   c. Location
   d. Main contents
   e. Deficient content
   f. Main features
   g. Crops associated
        (Do it in A4 size colored sheet)
2. On an outline Political map of India mark:
   a. Laterite Soil
   b. Desert Soil
   c. Black Soil
   d. Alluvial Soil
   e. Red soil
3. Make a assignment of 3-4 pages showing consumption and conservation of resources in your locality.
4. Imagine, if the oil supply gets exhausted one day, how would this affect our life style? Explain your views in fair notebook.

CIVICS

1. ACTIVITY
   Here are some examples of power sharing. Which of the four types of power sharing do these represent? Who is sharing power with whom?

   a. The Bombay High Court ordered the Maharashtra state government to immediately take action and improve living conditions for the 2,000-odd children at seven children's homes in Mumbai.

   b. The government of Ontario state in Canada has agreed to a land claim settlement with the aboriginal community. The Minister responsible for Native Affairs announced that the government will work with aboriginal people in spirit of mutual respect and cooperation.

c. Russia's two influential political parties, the Union of Right Forces and the Liberal Yabloko Movement, agreed To unite their organizations into a strong right-wing coalition. They propose to have a common list of candidate the next parliamentary elections.

d. The finance ministers of various states in Nigeria got together and demanded that the federal government declare its source of income. They also wanted to know the formula by which the revenue is distributed various state governments.

e. NEW DELHI: The Delhi High Court pulled up the Government on Tuesday for not processing parole applications by Tihar Central Jail inmates here within the stipulated time period fixed by it and summoned the State Home Secretary to explain the delay.

2. Why is it very difficult to make changes to the power sharing arrangements between the union government and state governments? Explain with examples.

3. Explain any two important differences between the power sharing model accepted by Belgium and Srilanka.

(Do all 3 questions in fair notebook)

HISTORY

1. Make a comparative study on Non cooperation and Civil disobedience movement on the basis of :
   a. Year
   b. Causes
   c. Participators
   d. Muslims participation
   e. Withdrawal
   f. Coarse of movement
   g. Participation of women
   (Do it in A4 size sheet)

2. The year is 1921. You are a student of government school. Design a poster urging your classmates to join the Non cooperation movement.
   (Do it in A4 size sheet)

3. The day is 13th April and year is 1919. You as a journalist have come to Amritsar to cover Baisakhi Fair but you witnessed Jallianwala Bagh masscare. Now write a report for paper covering all aspects.

(Do it in fair notebook)

4. MAP WORK

On the Outline Political Map of India mark
Indian National Congress Sessions:-
   a. Calcutta (Sep. 1920)
   b. Nagpur (Dec. 1920)
   c. Madras (1927)
   d. Lahore(1929)

Important Centers of Indian National Movement
   a. Champaran (Bihar)-Movement of Indigo Planters
   b. Kheda (Gujarat)-Peasant Satyagrah
   c. Ahmedabad (Gujarat)-Cotton Mill Workers Satyagraha
   d. Amritsar (Punjab)-Jallianwala Bagh Incident
   e. Chauri Chaura (U.P.)-Calling off the Non-Cooperation Movement.
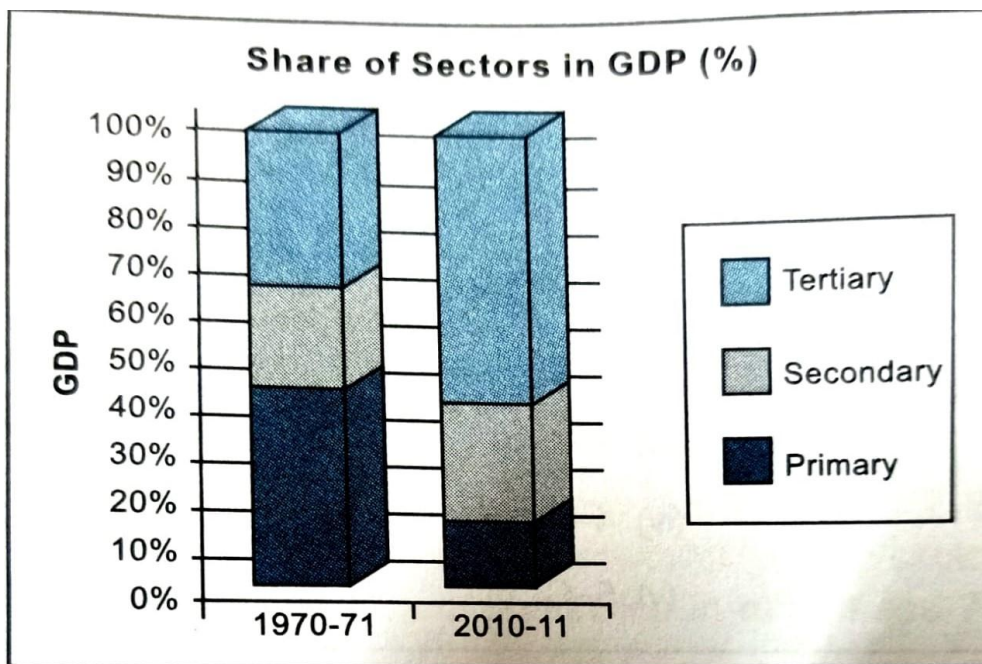   **f.** Dandi (Gujarat)-Civil Disobedience Movement

ECONOMICS

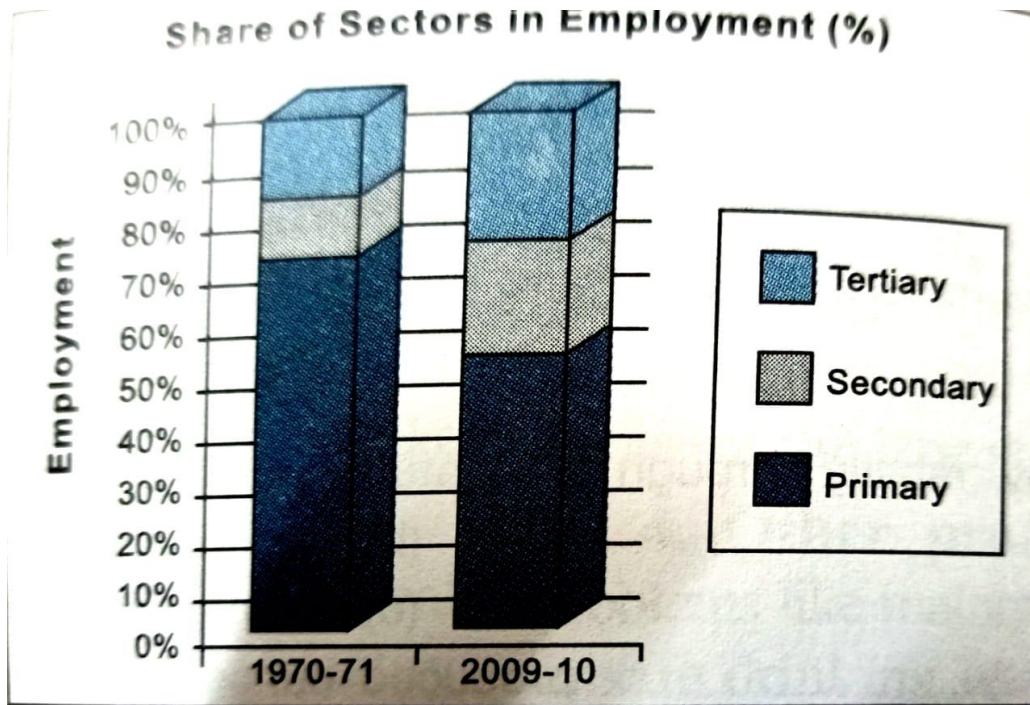**1.** Study the data given in the table answer the questions that follow:

Sector	Organised	Unorganised	Total
Primary	2		242
Secondary	9	54	63
Tertiary	17	76	63
Total	28		

   a. Which is the most important sector that provides most jobs to the people?
   b. What is the number of persons engaged in the unorganised sector?
   c. Why is the unorganised sector more important? Give one reason?
   d. Which is the most important organised sector? Give one reason?

2. "Girls in India in the rural sector are sometimes not able to get secondary level education". Give 3 reasons for this statement.

3. "Consequences of environmental degradation do not respect national and state boundaries". Justify the statement.

4. Why is it necessary to give protection and support to unorganized sector workers?

5. Study the given diagram and answer the questions that follow:
   a. Which was the largest producing sector in 1970-71? Give one reason.
   b. Which was the largest producing sector in 2010-11? What was its contribution to total G.D.P.?
   c. What was the main reason for the highest increase in G.D.P. in this sector in comparison to other sectors?

6. Study the given bar graph carefully and answer the following questions :
   (i) What was the share of the primary sector in employment in the year 1970-71?
   (ii) What was the share of primary sector in employment in the year 2009-10?
   (iii) Which sector has the lowest share in the employment in 2009-10?

Share of Sectors in Employment (%)

(Do questions 1-6 in fair notebook)

7. Prepare a assignment of 3-4 pages on "NREGA".

   a. Meaning
   b. Year of launching
   c. Reasons for launching the scheme
   d. Its impact

   e. Its limitation

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