



Affiliation No : 330881

GD GOENKA PUBLIC SCHOOL
Under the Aegis of G D Goenka Group , New Delhi **PURNEA**



2024

HOLIDAY Engagement



CLASS XI

HIGHER | STRONGER | BRIGHTER



SUMMER VACATION HOMEWORK

SESSION: 2024-25

ENGLISH: -

Internal Assessment - (Terminal 1)

- Note: Do not get your work done by your parents or seniors. It must be the effort of the child. Parents must act as guides and facilitators but not substitutes to do the work.
- Project work should be seen as an interesting activity that helps in mental and physical development of the child. This project (Internal assessment) will add marks in your first terminal examination.
- Compile all the work completed in a Box file. Use A 4 size paper for all the writing work.

(To enhance the students vocabulary)

- QA. Find 10 slogans on the following topics and write them on A 4 size paper. (make an artistic writings).
- (a) Energy crisis
 - (b) Save our Earth
 - (c) The world of sports
 - (d) Right to education
 - (e) stop corruption



(To sharpen the reading and writing skills)

- QB. Read “ we are not afraid to die ” page 13 in your , Hornbill and review it on the basis of the following points.
- (i) Mental qualities of the author

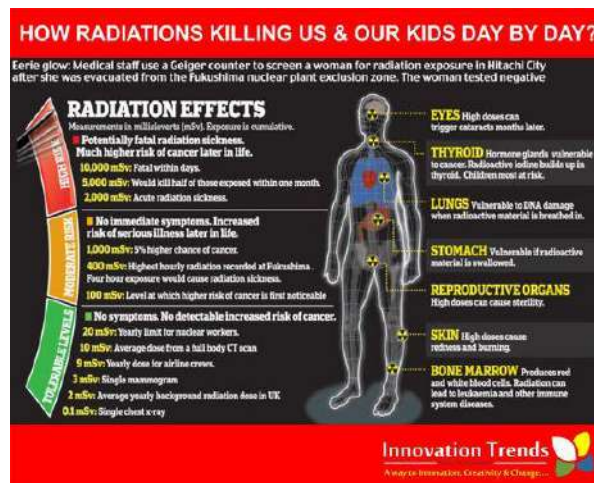
(To check the students confident level in the talking)

- QC. Make an interview with one of your family members on the ongoing “covid-19” in the country. Record the interview and give post it in the English group or sent to me via whatsapp.



(To enhance students vocabulary)

QD. The earth is going to be destroyed over the next two days due to radiation. Aliens from another planet have come to our rescue but they can only rescue twelve people and move them to a planet which is very similar to our earth. These twelve people will start a new world there. Imagine that you have been asked to draw up this list. What criteria would you use to make your decision and why. List ten criteria upon which you are going to make your decision and why. Along with the list also depict the criteria with pictures and slogans.



(Listening and writing)

QE. Watch a video of moving speeches of Dr Martin Luther King Jr's "I have a Dream" Speech. Take a notes about the speaker and how he delivered the speech, what body language was used? What emotion were communicated. Discuss with your friend online. Write your own speech about a topic you feel and present it in fair handwritten document.





PHYSICS: -

1. Study conservation of energy using incline plane .Prepare a report of 5 pages .
2. Study the trajectory of Projectile motion.
3. Study friction as necessary evil.

CHEMISTRY: -

1. Complete the literature part related to practical works in the lab journal.
2. Prepare an investigatory project on one of the topics given below:
 - (i) Study of the effects of acids and bases on the strength of tensile fibres.
 - (ii) Finding the vitamin C content in tomato / tomato juice with respect to change in temperature.



MATHEMATICS: -

- Q1. If $A = \{2, 3\}$, $B = \{4, 5\}$, $C = \{5, 6\}$ Find (i) $A \times B$ (ii) $A \times (B \cup C)$ (iii) $A \times (B \cap C)$
Find (i) $A \times (B \cup C) = (A \times B) \cup (A \times C)$
(ii) $A \times (B - C) = (A \times B) - (A \times C)$
- Q2. If the ordered pairs $(x, -1)$ and $(5, y)$ belong to the set $\{(a, b) : b = 2a - 3\}$, find the values of x and y .
- Q3. If A and B are two sets having 3 elements in common. If $n(A) = 5$, $n(B) = 4$, find $n(A \times B)$ and $n(A \times B) \cap (B \times A)$
- Q4. Determine the domain and range of the following relations:-
(i) $R_1 = \left\{ \left[x, \frac{1}{x} \right] : 0 < x < 6, x \in \mathbb{N} \right\}$ (ii) $R_2 = \left\{ [x, x^3] : x \text{ is a prime number less than a } 10 \right\}$
- Q5. Write all possible relation from $A = \{1, 2\}$ to $B = \{0\}$.
- Q6. How many relations are possible from a set A of n elements to another set B of n elements ?
- Q7. Find the domain for which the functions $f(x) = 3x^2 - 1$ and $g(x) = 3 + x$ are equal.
- Q8. Express the following functions as set of ordered pairs and determine their ranges.
(a) $f : A \rightarrow \mathbb{R}$, $f(x) = x^2 + 1$, where $A = \{-1, 0, 2, 4\}$
(b) $g : A \rightarrow \mathbb{N}$, $g(x) = 2x$, where $A = \{x : x \in \mathbb{N}, x \leq 10\}$
- Q9. Let a function f be defined by $f(x) = \frac{x}{x^2 + 1}$, $x \in \mathbb{R}$
Find (i) $f\left(\frac{1}{x}\right)$ $x \neq 0$ (ii) $f(2x)$ (iii) $f(x-1)$
- Q10. If $f(x) = \frac{x-1}{x+1}$, $x \neq -1$, then show that $f(f(x)) = \frac{-1}{x}$, provided that $x \neq 0$
- Q11. Let $f(x) = x^2$ and $g(x) = 2x + 1$ be two real functions find (i) $(f + g)(x)$ (ii) $(f - g)(x)$ (iii) $(f \cdot g)(x)$ (iv) $\left(\frac{f}{g}\right)(x)$
- Q12. If a real function f is defined by $f(x) = (|x| - x) / 2x$, find its range.

BIOLOGY:-

- Prepare investigatory projects of 25-30 pages on any of the following topics.
 - Diabetes and its prevention
 - Taxonomical Aids
 - Taxonomy
 - Public health and hygiene
 - Drug addiction and drug abuse
 - Obesity and health risk
 - Nutritional aids
 - Air pollution and its effects



- i. Malnutrition in living beings.
- j. Project of Human Genome.
- k. Sickle cell anemia with its prevention.

The project should include the following points:

- Cover page
- Index
- Acknowledgement
- Certificate
- Introduction
- Details about the project
- Annexure
- Bibliography

2. Prepare 40 MCQs from chapter 3 & 4 and submit it in typed form.

ACCOUNTANCY: -

Make a flash card on any 1 Accounting Term w.r.t Ch-2 Basic Accounting Terms

BUSINESS STUDIES: -

Guidelines for Project Work:

Topic for the project :

Project 1- Innovations in the world of business

OR

Project 2- Comprehensive Report on Working and CSR initiatives of five business organizations

Date of Submission: 7 July 2024

Scope of the project:

Project 1- Innovations in the world of business

Project on any 10 major innovations/ events / happenings/ changes in the business world, in the last one to three years, related to the field of finance, banking, trade, production, skill upgradation, hospitality, technology and infrastructure development (Emphasis upon the innovations used commercially in order to enhance the earnings of business).



OR

Project 2 -

Comprehensive Report on Working and CSR initiatives of five business organizations
Pick up ONE business enterprise from EACH of the following forms of the Business

Organizations: namely

- 1) **Sole Proprietorship**
- 2) **Joint Hindu Family**
- 3) **Partnership**
- 4) **Cooperative Society**
- 5) **Joint Stock Company**

Prepare a comprehensive report on the background, current status and future prospects of each of these enterprises. Also add the CSR initiatives carried out by these business organizations, in detail.

The expectations of the project work are:

1. Project should be of 40-45 pages
2. It should be handwritten.
3. It should be a well-researched piece of study.
4. The practical file should include:

Content/Index

Acknowledgement

Certificate

Introduction

Details of the topic

5. Students should add their own key learning in conclusion.

ECONOMICS: -

Dear Students,

Please follow the guidelines enlisted below for the project work which you have to do for the holiday engagement. Do carry out research, read extensively, explore and think 'out of the box' to make your project unique and more meaningful.

Date of Submission: 5th July 2024



Guidelines for Project Work :

1. Make a Project file on any one of the following topics:
 - Rural Development
 - Sustainable Development
2. Project must be of 40-45 pages (including diagrams & graphs).
3. It should be handwritten.
4. It should be an independent, self-directed piece of study.
5. Following essentials are required to be fulfilled in the project.
 - Content/Index
 - Acknowledgement
 - Certificate
 - Introduction
 - Details of the topic
 - Pros and Cons of the economic event/happening.
 - Major criticism related to the topic (if any)
 - Students' own views / opinion and learning from the work
 - Any other valid idea as per the perception of the student who is presenting the Project-Work.
 - Case Study
 - Bibliography
6. Arrange a presentation of the project file

HISTORY: - The Ancient History In Depth: Mesopotamia (Project File)

GOEGRAPHY: - PROJECT ON "BIG BANG THEORY"

POLITICAL SCIENCE: - Fundamental Rights (Project)

PHYSICAL EDUCATION: -

COMPUTER SCIENCE: -

1. Write a program to accepts two integers and print their sum.
2. Write a program that accepts the radius of a circle and prints its area.
3. Write a program that accepts base and height and calculate the area of a triangle.
4. Write a program that inputs a student's marks in three subjects (out of 100) and prints the percentage marks.
5. Write a program to compute the area of square and triangle.



6. Write a program to calculate simple interest.
7. Write a program to read two numbers and prints their quotient and remainder.
8. Write a program to find whether a given number is even or odd.
9. Write a program to find the largest among the three integers.
10. Write a program to find the lowest among the three integers.

PSYCHOLOGY: -

By now which branch of psychology would you like to join? Accordingly, you can contact a psychologist who fits into one of the categories and interview the person have a list of questions beforehand if possible.

Questions could be following:

1. What kind of knowledge is necessary for your particular job?
2. Which college or university would you recommend for the study of this discipline?
3. Are there many jobs available in your field of discipline?
4. What would a typical day at work be like for this?
5. What motivated you to enter this line of work?

Write a report of your interview and include your specific reactions.



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Let all your worries & stress
go away this summer & enjoy
every minute of it. Have a great

Summer Vacation.



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