



आत्मानं विद्धि

MANAVA BHARATI HERITAGE SCHOOL, CHANDIGARH

Summer Holiday Homework 2020-21

STAY
HOME
STAY
SAFE



- ✓ to spend precious time with loved ones
- ✓ can strengthen the bond between family members
- ✓ be able to do many beneficial activities with the family

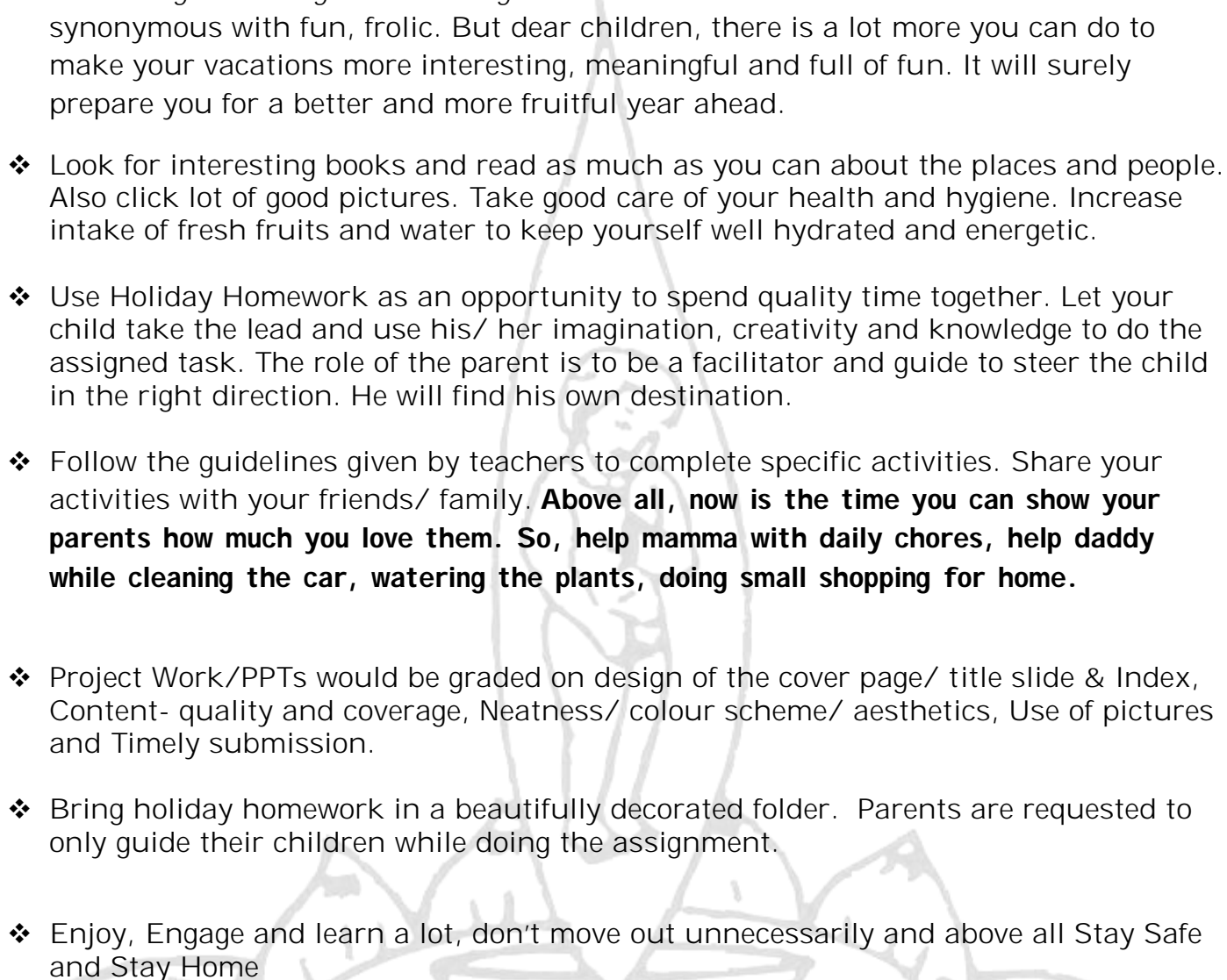


Dear Students/Parents,

#stayhome #staysafe

It seems as if the world as we know is changing daily and we need to be ready for it, we are doing our very best to maintain a sense of normalcy and also taking care of children academically and emotionally during this covid-19. *'Perfection is not attainable, but if we chase perfection we can catch excellence'*, Teachers, school staff, families and specially students are adjusting to a new life, learning in a world where we are all staying learning and working at home in order to contain the spread of covid-19. You might be inclined to create a minute by minute schedule for your kids. You have high hopes of hours of learning, including online activities. We need to guide them and make them aware of how can we deal with covid-19. Our kids are just as scared as we are right now. Our kids not only can hear everything that is going on around them, but they feel our constant tension. What kids need right now is to feel comforted and loved. To feel like it's all going to be ok. And that might mean that you tear up your perfect schedule and love on your kids a bit more. Don't worry about them. Every single kid is in this boat and they all will be ok. When we are back in the classroom, we will all course correct and meet them where they are. Teachers are experts at this! **Children need encouragement not nagging**



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- ❖ After long online classes and learning we are moving for a short break with some creative work to engage our mover, learner and flyers. *'Innovation and motivation is the fuel necessary to keep the human engine running'. Multi tasking is the need of the hour!* Summer Vacation is synonymous with fun, frolic. But dear children, there is a lot more you can do to make your vacations more interesting, meaningful and full of fun. It will surely prepare you for a better and more fruitful year ahead.
 - ❖ Look for interesting books and read as much as you can about the places and people. Also click lot of good pictures. Take good care of your health and hygiene. Increase intake of fresh fruits and water to keep yourself well hydrated and energetic.
 - ❖ Use Holiday Homework as an opportunity to spend quality time together. Let your child take the lead and use his/ her imagination, creativity and knowledge to do the assigned task. The role of the parent is to be a facilitator and guide to steer the child in the right direction. He will find his own destination.
 - ❖ Follow the guidelines given by teachers to complete specific activities. Share your activities with your friends/ family. **Above all, now is the time you can show your parents how much you love them. So, help mamma with daily chores, help daddy while cleaning the car, watering the plants, doing small shopping for home.**
 - ❖ Project Work/PPTs would be graded on design of the cover page/ title slide & Index, Content- quality and coverage, Neatness/ colour scheme/ aesthetics, Use of pictures and Timely submission.
 - ❖ Bring holiday homework in a beautifully decorated folder. Parents are requested to only guide their children while doing the assignment.
 - ❖ Enjoy, Engage and learn a lot, don't move out unnecessarily and above all Stay Safe and Stay Home

V.K PANDEY

PRINCIPAL



आत्मानं विद्धि

MANAVA BHARATI HERITAGE SCHOOL, CHAND KAIMUR

HOLIDAY HOME WORK GRADE: XII

SUBJECT: ENGLISH

- Q1. You want to sell your house at 15 Rajendra Nagar, New Delhi. Draft an advertisement in not more than 50 words, giving the necessary details, to be published in the classified columns of 'The New India Express.' You are Krishna/Alka.
- Q2. You are Anuj, a social activist. Design a poster to observe 'Wildlife Protection Week' in your city, in 50 words.
- Q3. G.L. Institute recently organised a 'No Tobacco' Workshop. Write a report on the same to be published in the newspaper in 150-200 words.
- Q4. Spurt of violence previously unknown in Indian schools makes it incumbent on the educationists to introduce value education effectively in schools. Write an article in 150-200 words expressing your views on the need of value education. You are Anu/Aditya.
- Note: do all the work on A4 size paper and prepare a file.

SUBJECT: Business Studies

Ques1. Effectiveness and Efficiency are two sides of the same coin but both differ in terms of orientation .How?

HINTS:

- Coin= company's goal
Two sides= Effectiveness and Efficiency
- Should include definitions of Effectiveness and it's explanation and Efficiency and it's explanation.
- Both has same purpose i.e to achieve the co. objective and both depends on each other to attain company's goal.

Note* [[NOT LESS THAN 100 WORDS]]**

Ques2. Explain 5 functions and 7 characteristics of management, draw diagrams where ever it's needed.

Note* [[NOT LESS THAN 450 WORDS]]**

HINTS: different points of functions with diagrams---- 150 words

: different points of characteristics with diagrams ----200 words

Ques3. What is difference between scalar chain with Gang plank and routine communication .support your answer with diagram.

HINTS:about scalar chain with Gang plank and how it is different from routine Communication.

Que4. In a typical company which wants to grow ,develop it's personnel and achieve its ,what all it's objectives be.

HINTS: about objective(points)

Note*** [[NOT LESS THAN 150 WORDS]]

Ques5, Mohan a trader in commodities, has been quite successful and has earned substantial money. he stresses that in business ,there is no need for applying mgnt principles; success in business depends on one's gut feeling. his son who is studying business studies stress that in doing business effectively ,certain principles of mgnt. are applied. you might be applying mgnt. Principles but may not be aware of this. He explained four points indicating the significance of mgnt. Principles and his father got convinced. Explain the points which Mohan's son might have explained.

Note*** [[ACCORDING TO YOUR ANSWER]]

SUBJECT: MATHEMATICS

✚ Preparation of Power Point Presentation on:

❖ Linear Programming Problem.

- Concepts and Basic terms involving L.P.P
- Types of L.P.P
- Graphical solution of L.P.P
- Applications of L.P.P

✚ All examples from exemplar and relevant questions from previous years board papers of the chapters 2,3,4,5,6 , probability, vectors & 3 D to be done.

SUBJECT: SCIENCE

PHYSICS:

1. If $E = 5i + 3j + 2k$ units, Calculate the electric flux through a surface of area 40 units in Y-Z plane.
2. Calculate Coulomb force between two alpha particles separated by a distance of 3.2×10^{-15} m in vacuum.
3. By what factor the capacitance of a metal sphere increase if its volume is made 27 times?
4. A conductor of length 'L' is connected to a dc source of potential difference 'V'. If length is doubled by keeping V constant, how is the drift speed be affected?
5. A battery of emf 3V and internal resistance 0.2Ω is being charged by a current of 6 A. What is the potential difference between the terminals of the battery?
6. Two wires A and B of same material have their lengths in the ratio 1:5 and diameters in the ratio 3:2. If the resistance of the wire B is 180Ω , find the resistance of wire A.
7. Two small charged spheres A and B have charges $10 \mu C$ and $40 \mu C$ respectively, held at 90 cm from

each other. At what distance from A, E will be zero?

8. State and prove Gauss Law in Electrostatics.

9. Three charges each equal to 'q' are placed at the three corners of a square of side 'a'. Find the electric field at the fourth corner.

10. The force experienced by a unit charge when placed at a distance of 0.10 m from the middle of an electric dipole on its axial line is 0.025 N. When it is placed at a distance of 0.2 m, the force becomes 0.002 N. Calculate the dipole length (It's not negligible compared to the distance involved).

Chemistry:

(i) A 10% solution (by mass) of sucrose in water has a freezing point of 269.15 K. Calculate the freezing point of 10% glucose in water if the (b) Abnormal molar mass (iii) 30 g of urea ($M = 60 \text{ g mol}^{-1}$) is dissolved in 846 g of water. Calculate the vapour pressure of water for this solution if vapour pressure of pure water at 298 K is 23.8 mm Hg. (iv) Write two differences between ideal and non ideal solutions.

Calculate the freezing point of a solution containing 60 g of glucose (Molar mass = 180 g mol^{-1}) in 250 g of water. (K_f of water = $1.86 \text{ K kg mol}^{-1}$) Give reasons for the following : (a) Measurement of osmotic pressure method is preferred for the determination of molar masses of macromolecules such as proteins and polymers. (b) Aquatic animals are more comfortable in cold water than in warm water. (c) Elevation of boiling point of 1 M KCl solution is nearly double than that of 1 M sugar solution.

BIOLOGY:

1. In haploid organisms that undergo sexual reproduction, name the stage in the life cycle when meiosis occurs. Give reasons for your answer.

2. The number of taxa exhibiting asexual reproduction is drastically reduced in higher plants (angiosperms) and higher animals (vertebrates) as compared with lower groups of plants and animals. Analyse the possible reasons for this situation.

3. Honeybees produce their young ones only by sexual reproduction. In spite of this, in a colony of bees we find both haploid and diploid individuals. Name the haploid and diploid individuals in the colony and analyse the reasons behind their formation.

4. With which type of reproduction do we associate the reduction division? Analyse the reasons for it.

5. Enumerate the differences between asexual and sexual reproduction. Describe the types of asexual reproduction exhibited by unicellular organisms.

6. Do all the gametes formed from a parent organism have the same genetic composition (identical DNA copies of the parental genome)? Analyse the situation with the background of gametogenesis and provide or give suitable explanation.

7. Differentiate between (a) oestrus and menstrual cycles; (b) ovipary and vivipary. Cite an example for

each type

SUBJECT: ECONOMICS

PART (A) Indian Economic Development

S.No. Questions

1. Make a project properly on "Digital India" or "Make in India" (any one) in file paper.
2. What is poverty? How many types of poverty .explain it.
3. Make a note on five years plan.
4. What is the impact of COVID -19 on Indian economy?

PART (B) Macroeconomic

S.No. Questions

1. What is difference between microeconomics and macroeconomics?
2. What is partial and general equilibrium?
3. What is the circular flow of income explain with diagram?
4. Write short note on following topics with examples:-
 - (a) Final goods and intermediate goods.
 - (b) Consumption goods and capital goods.
 - (c) Expenditure.
 - (d) Gross and Net investment.
 - (e) Stock and flow.

Note: all the questions to be done in A4 size paper and prepare a proper file.

SUBJECT: ACCOUNTANCY

In the absence of Partnership Deed

Q. 1. Mahesh and Ramesh are partners with capitals of Rs. 50,000 and Rs. 60,000 respectively. On 1st January 1998, Mahesh gives a loan of Rs. 10,000 and Ramesh introduced Rs. 20,000 as additional capital. Profit for the year ending 31st March 1998 was Rs. 15,200. There is no partnership deed. Show how the profits would be divided? Give reasons. (Delhi, A1 2001)

Interest on Capital

Q. 2. A and B are partners sharing Profit or Loss in the ratio of 3 : 2 having capitals balances of Rs. 50,000 and Rs. 40,000 on 1.4.2003. On 1st July, 2003 A introduced Rs. 10,000 as his additional capital whereas B introduced only Rs. 1,000. 10% interest on capital is allowed to partners. Calculate the interest on capital if the financial year closes on 31st of March every year. Interest on Drawings

Q. 3. B and W are Partners in a firm. They withdrew Rs. 18,000 and Rs. 36,000 respectively during the year evenly at the middle of every month. According to partnership agreement, interest on drawing is to be charged @10% p.a. Calculate the interest on drawings of the partners using appropriate formula.

Profit and Loss Appropriation Account

Q. 4. Geeta and Meeta were partners in a firm sharing profits in the ratio of 5:3. Their fixed capitals were Rs. 3,00,000 and 2,00,000 respectively. The partnership deed provided that:

- (a) Interest on capital should be allowed @ 12% p.a.
- (b) Meeta should be allowed a salary of Rs. 40,000 p.a.
- (c) A commission of 5% of the net profit should be allowed to Meeta. The net profit for the year ended 31.3.2001 was Rs. 2,00,000.

Prepare profit and loss appropriation account.

SUBJECT: HISTORY

TOPIC: Town planning and Artefacts of the Harappan civilization. Project work (as per CBSE guideline)

Objectives: The purpose of this study is as follows:

- ☐ It will help students to understand the importance of artifacts as a source for studying ancient civilizations.
- ☐ Students will appreciate the town planning of Harappan Civilization and can compare it with the modern towns and cities.
- ☐ It will create awareness on the kind of life people led then.

SUBJECT: GEOGRAPHY

1. Agriculture (Book 1)

2. Mineral resources (Book 2)

Note making & map work as per CBSE curriculum

SUBJECT: PHYSICAL EDUCATION

1) Discuss the procedure for Asanas and Yogic kriyas benefit and contraindications of any four asanas for each life style disease

a) Asthma b) Diabetes c) Obesity d) Hypertension e) Back pain

2) Explain the meaning of disability and disorder? Discuss the various strategies to make physical activity accessible for children with special needs.

3) Write Any one game of your choice from the list given below.

a) Labelled diagram of field. b) Rule and regulations. c) Terminologies and fundamental skills.

(Basketball, football, volleyball, cricket, Handball and Hockey)

SUBJECT: POLITICAL SCIENCE

International Organizations. (Prepare a detail report in a proper file)

- ☐ The Cold war Era
- ☐ The Rise of Popular Movements.
- ☐ The recent developments in Indian Politics.

(Any one of the above mentioned topic)

HAPPY HOLIDAYS