



Carmel Convent Higher Secondary School

Kunjwani, Jammu

Academic Session (2018-19)
Grade-XI

Holiday Research Work

Student's Name:

Date:



Dear Students,

We know that when you think of summer, you always think of fun filled activities such as; playing for longer hours, exploring new places, visiting your grandparents, bonding with your cousins ,watching movies etc. But Studies are important for us to gain knowledge, and sports are important to keep active, healthy and learn various personality traits such as leadership, team spirit, responsibility and many more. With this thought in mind, this year, the school has designed your holiday homework to keep you actively and fruitfully engaged during your summer break.

Some Tips to make this holiday special:

- Make a list of books you've always wanted to read or find a list of best-sellers and give yourself plenty of reading for the summer.
- Take an educational vacation with your parents.
- Learn to play an instrument.
- Learn a new language.
- Visit some museums.
- Have family dinner together and spend time with your grand parents.
- Play outdoor games and have lots of fun.

Bring all your homework when you come back to school after the vacation. Though we will miss you and your chatter and laughter definitely, we wish you a **HAPPY AND HAPPENING SUMMER BREAK!**

Enjoy and take care of yourself!

With Love

Class Teacher

In case of any help if you are stuck, please feel free to contact us on the given number or email id's:-

School Phone No.: 0191-2480717

For any feedback & suggestions please mail us at carmeljkkunjwani@gmail.com



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Some useful tips for Summer Vacation:

Some do's and don'ts during summer vacation:

Do's:

- Eat home -cooked food and consume fruits & vegetables timely.
- Drink plenty of water.
- Eat fruits with high water content such as watermelon, muskmelon, oranges and cucumber as they are fit for summers.
- Play outdoor games.
- Always carry water for to prevent illnesses and dehydration.
- Maintain proper hygiene; take showers twice a day.
- Wear light colour cotton clothes, wear shades, cap and carry umbrella before stepping out.
- Study for an hour everyday to keep in touch with your studies as well. Discover your creativity through Research worksheets.



Don'ts

- Avoid having junk food and fizzy drinks.
- Do not watch too much TV or be addicted to mobiles.
 - Do not wear synthetic clothes.
 - Do not stand directly under the sun.



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English

1. In the world of technology everyone is busy in their own work they send messages through mobiles and forget to write letters. In order to understand the format of letter writing and feel the joy of getting reply through post, write a letter to your friend telling her about your summer vacations and ask her to give response only through post.
2. Every week send an e-mail to your any close relative with whom you are not in regular contact and ask him/her about his/her health so that a sense of connectivity develops and sweetens the relationships. This activity will also improve your e-mail writing skill and you will be able to learn the format of e-mail for your exams.
3. Suppose your school is going to organize a Christmas Carnival, draw a beautiful poster giving the details of the event. This activity will improve your poster making skills so that you will be able to learn the pattern of poster writing for exams.
4. Suppose your school requires an English teacher and you are the office in-charge, publish an advertisement in newspaper. Give all the mandatory details. Through this you will learn the format of advertisement.
5. Read first three chapters of book again and learn all the textual questions, exercises and vocabulary.
6. Switch off your mobile for 1 hour daily in the evening and spend that time with your parents and family only, and collect some values and beautiful memories that stays with you forever.
7. Spend some time in the lap of mother nature, everyday go for a morning Walk and enjoy beautiful view of sunrise. This activity will develop your aesthetic sense.
8. Do meditation everyday for at least 15 minutes. It improves your concentration power.
9. Write a paragraph (120-150 words) on your experience of above mentioned last three activities (include pt.no. 6, 7 & 8).



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Accountancy

1.Revise and Practice:-

I. Units I,II,III,IV & V.(Up to JOURNAL)

2. Test:-

23 July up to JOURNAL.

II. Project work:- Collect Financial data i.e. Financial statements, cashbooks, Vouchers, Ledgers etc. of a Jammu based Organization.

BUSINESS STUDIES

Instructions: Maintain a separate file for the HomeWork

Complete the Homework neatly

Think and Do:-

- 1.Read the Business news from National Daily Newspaper(Hindustan Times, The Times of India etc.).Paste atleast 10 interesting news articles from the world of business also accompanied with a summary.
- 2.Give a complete profile of a successful Indian Businesswoman giving details of her Business and achievements.
- 3.Read the Chapter- Social Responsibility of Business and Business Ethics. State the responsibility you can share for the community if you are a part of an organisation.
4. Prepare Chapter – 1 to 4 Revision Test after Vacations.



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ECONOMICS

Instructions for Homework:

Please prepare the Homework on a separate file.

Kindly note Marks will be awarded for this project.

Do the work Neatly.

Think and Do:-

Develop a Project Report on the Topic “Demographic Structure of your neighborhood” using proper statistical tools and a proper format. All the steps required for Statistical study should be followed.

HOLIDAYS HOMEWORK 2018-19

Std - XI

Sub - EVS

PROJECTS –

1. Prepare a *Herbarium*.
2. Make a project on *Nipah Virus*.

Draw & Explain –

3. Food Web on Land
4. Food Web in a Pond
5. Food Chain on Pond
6. Do all questions and answers of Lesson Ecosystem under Threat I.



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Mathematics

STUDENTS'S NAME

DATE

1. In a school there are 20 teachers who teach mathematics or physics. Of these, 12 teach mathematics and 4 teach physics and mathematics. How many teach physics.
2. If A and B are two sets such that $n(A \cup B) = 50$, $n(A) = 28$ and $n(B) = 32$, find $n(A \cap B)$.
3. Prove that : $2 \cdot 7^n + 3 \cdot 5^n - 5$ is divisible by 24, for all $n \in \mathbb{N}$.
4. Solve the equation $x^2 - 4x + 13$ by factorisation method.
5. Convert $\frac{1+3i}{1-2i}$ in Polar form.
6. A room has 6 doors. In how many ways can a man enter the room through one door and come out through a different door.
7. In how many ways can 5 letters be posted in 4 letter boxes/
8. Twelve students compete in a race. In how many ways first three prizes be given?
9. Find all pairs of consecutive odd natural number, both of which are smaller than 10, such that their sum is less than 40.
10. The marks scored by rohit in two tests were 65 and 70. Find the minimum marks he should score in the third test to have an average of at least 65 marks.
11. Prove that $12 + 22 + 32 + \dots + n^2 > n^3/3$ for all $n \in \mathbb{N}$.
12. Find the Radian measure of $-47^\circ 30'$

Revise and practice :-

Chapter No.1 and Chapter No's 4, 5, 6 & 7

Revision Test on 16/7/2018 (Chapter No. 4, 5 , 6)

Revision Test on 24/7/2018 (chapter No.1 and 7))



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Biology

Q: Draw well labeled diagrams of

- a) Female and male thallus of liver worts.
- b) Alternation of generation in angiosperms.

Q: Give the summarized account of photosynthetic pigments, storage material, and complexity of structure in different groups of algae.

Q: Draw a neat and clean well labeled life cycle of an angiosperm, using innovative methods.

Q: What do you understand by the term “three generations locked in seed?” Explain in detail.

Q: Gather any four seeds of dicotyledonous and monocotyledonous plants and paste them on sheets in a file giving brief description of any two of each.

Q: Diagrammatically explain haplontic, diplontic, and haplo-diplontic alternations of generations.

Q: In gymnosperms, cross pollination is accomplished by wind. The same is known as anemophily. Explore your knowledge and collect information about the rest of the agencies of pollination.

Q: Which alga is popularly called “devils apron” and why? Give a detailed account of the alga in support to your answer.

(hint : Consult your books for the answers)



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Physics

ANSWER THE FOLLOWING QUESTIONS IN YOUR CLASS WORK

1. If the instantaneous velocity of a particle is zero, will its instantaneous acceleration be necessarily zero? Explain.
2. The displacement-time graphs for the two particles P and Q are straight lines inclined at angles of 45° and 60° with the time axis. What is the ratio of the velocities $V_P: V_Q$?
3. Draw the following graphs representing motion of an object under free fall. Neglect air resistance. (i) Variation of position with respect to time. (ii) Variation of velocity with respect to time. (iii) Variation of acceleration with respect to time.
4. A particle starts from rest and has an acceleration of 2 ms^{-2} for 10 s. After that the particle travels for 30 s with constant speed and then undergoes a retardation of 4 ms^{-2} and comes back to rest. Calculate the total distance covered by the particle.
5. The acceleration 'a' of a particle starting from rest varies with time according to relation $a = \alpha t + \beta$. Find the velocity of the particle after a time 't'.
6. A car moves a distance of 200 m. It covers the first half of the distance at a speed of 40 km/h and the second half of distance at speed 'v'. Calculate the average speed of bus?
7. A particle moves along a straight line OX. At a time 't' (in seconds) the distance x (in metres) of the particle O is given by $x = 40 + 12t - t^3$. How long would the particle travel before coming to rest?
8. A car moving with a speed of 40 km/h can be stopped by applying brakes after at least 2 m. If the same car is moving with a speed of 80 km/h, find the minimum stopping distance?
9. If a car at rest accelerates uniformly to a speed of 144 km/h in 20 s, calculate the distance covered?
10. A gas bubble, from an explosion under water, oscillates with a period T proportional to $P^a d^b E^c$, where p is the static pressure, d is the density of water and E is the total energy of the explosion. Find the value of a, b and c.
11. Derive : (i) $S = ut + \frac{1}{2}at^2$ using calculus method (ii) Third equation of motion using graphical method.
12. Check by the method of dimensions whether the relation is correct: $v = \frac{1}{2}(T/m)^{1/2}$ where T is the tension in the string, m is the mass per unit length.

Revise the chapters done in the Class.



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Chemistry

Answer the following question.

1. Write practical's on your chemistry practical files:
 - (a) To prepare crystals of pure copper sulfate from impure sample of salt.
 - (b) To prepare crystals of pure potash alum from impure sample of salt.
2. Write down the electronic configuration of first 50 elements.
3. Explain limiting reagent.
4. Define following terms:
 - (a) Strength
 - (b) Mass percent
 - (c) Volume percent
 - (d) Parts per million (ppm)
 - (e) Molarity
 - (f) Normality
 - (g) Molality
 - (h) Mole fraction
5. What are intermolecular interactions? Explain its types.
6. Explain following laws;
 - (a) Boyle's law
 - (b) Charles law
 - (c) Avogadro law

POLITICAL SCIENCE & PUBLIC ADM.



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1) CASE STUDY

1. Make a case study of recent Karnataka elections. Write the detail and its outcome. If possible paste Newspaper Report

(II) CJI IMPEACHMENT 2018

Write a Report regarding Impeachment motion against CJI DIPAK MISHRA.

(III) . MAP WORK

I. On an outline Map of India show. -

(I) -States having single/ bicameral legislature

(2) on an outline map of India show the states with number of seats , each constituency has in the parliament.

(IV). Write down the names of Governors and Chief Ministers of every state and union territories

(V) Write the names of Present President, vice president, Prime Minister and cabinet with their portfolios, if possible paste their pictures as well.

(VI) Names and short write up on Present 12 nominated members of Rajya Sabha.

(VII) Paste the Name and picture of Present Chief Justice of India.

(VIII) Who is the Present Election Commissioner of India.

(IX) Paste the pictures of three chiefs of Indian armed forces - - Army /Air force /navy and write the hierarchy or ranks of each force in ascending or descending order.

(X) Write a note on "Why Youth/ Young generation is going out of Jammu for pursuing higher studies and to seek jobs. What changes are needed in Jammu to make it a better place to live and work.



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(XI) As a conscious and responsible citizen how do you contribute in making India a better place.

(XII) Make a detailed study of sources of our Indian constitution.

(XIII) Make a Study of 4 Such Indian cases which were a benchmark in Amending Indian Judicial system.

(I) SHAHBANO CASE

(2) NANAWATI CASE

And 2 other of your choice.

(XIV) Do a self-study of Lesson "Judiciary" especially the given topics-

(I) why is judiciary important.

2. Need for an independent judiciary 3. Provisions ensuring independence of judiciary.

4. Powers and functions of Supreme Court /High Court .

5 Role of judiciary in Public Interest.

6. Judicial activism.