

Summer Vacation

Dear parents ,

Hello! Thank you for your care and support for a long time. Summer holiday is coming, and we are very much concerned about whether students could spend a colorful and happy summer vacation. Because your children are not only the hope and future of the motherland but also expectations of every family. Their security is related to every family. In order to let them have a healthy, safe, civilized and happy holiday, please fulfill the duties of guardians conscientiously and urge children to do safety work well. We put forward the following suggestions to you:

First, we should create a good atmosphere at home. Home is the life of the harbor and is the paradise of learning. Many successful examples show that harmonious and good family atmosphere can improve the students' inner qualities spontaneously, develop good study habits and is also conducive to the healthy growth of students. Therefore, as a parent, you should communicate and exchange with your children more, make friends with them, encourage them to do some housework in the range of their own ability and create a clean, beautiful, warm and harmonious family atmosphere.

Second, children should maintain regular life and keep learning. Although the summer holiday was a period of rest and relaxation, parents should require children to maintain regular life, go to bed early and rise early. Parents should urge their children to complete homework on time, read some healthy extra-curricular books, broaden children's horizon and expand the field of children's vision. Parents should also encourage students to participate in a variety of reading activities, community activities, social investigation and the social practice activities actively, which could increase their social knowledge. Parents should help children develop good reading habits.

Three, life is no small matter; security should be in your mind. Pupils are minors, lack of safety awareness and the sense of safety precaution. Parents should often remind them and teach them the necessary safety prevention knowledge:

1. Pay attention to traffic safety. Children must obey the traffic rules and go out with friends or in your company. If they go out together or alone, they must tell you where they would go, who would go with them and what time they would come back. Don't promise them that they could invite classmates to play out without permission or stay outside overnight.

2. Safety education about drowning prevention: Children must go swimming under adult supervision. Without safety measures or adult supervision, children mustn't go swimming alone or with friends. Children should learn self-protection knowledge and skills. Security should be always in mind.

3 Parents should pay close attention to kids around your children. Communication with bad guys should be strictly prohibited. Don't open the door to strangers at home or contact with strangers. Prevent violence.

Forth, keep civilized on the Internet and keep healthy every day. Children should go on Internet at home under adult supervision. Children shouldn't log in or browse unhealthy website. Children should resist the adverse information consciously. Arrange time reasonably and don't indulge in the games. Children shouldn't go to the game rooms, Internet cafes and other unhealthy places. Be a civilized, good moral juvenile.

Five, do exercise regularly and make sure of food safety. Supervise children to do more exercise. Pay attention to personal hygiene, environmental hygiene and food hygiene. Don't eat rotten, bad food or "three nose" food. Don't take children to eat out and participate in the banquet. Prevent overeating and food poisoning.

Six, there are some students enrolled in summer school. Please pick up the children according to the rules of the school time.

Dear parents, I hope you can cooperate closely with school, and be positive and responsible to arrange the students' summer life.

The summer vacation begins from May 21st to 30th June. The school will reopen on July 1st.

Finally, hope for our students -- be safe, grow healthily. And we wish you success in work, family happiness, and good luck in everything.

Sonila Bhagat
Principal

GREEN FIELD PUBLIC SCHOOL
CLASS - XI COMM
HOLIDAY HOME WORK (2019-20)

ENGLISH

Q1. FROM THE POEMS GIVEN IN YOUR BOOK HIGHLIGHT THE PRESENCE OF LISTED LITERARY DEVICES WITH ITS EXPLANATION & SUITABLE EXAMPLES FROM THE GIVEN POEM IN YOUR ENGLISH PRACTICE NOTEBOOK.

SIMILE
METAPHOR
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ALLITERATION
REPETITION
OXYMORON
REFRAIN
HYPERBOLE
ALLUSION
APOSTROPHE
IRONY
PARADOX
ONOMATOPOEIA
PUN

Q2. FROM ANY OF THE ENGLISH NEWSPAPER CUT & PASTE TWO EXAMPLES EACH OF ALL TYPES OF ADVERTISEMENT IN YOUR ENGLISH NOTEBOOK

ACCOUNTS

Part - A

- Q1 Explain what is accounting
- Q2 Explain the steps in accounting process in brief
- Q3 Difference between book keeping and accounting
- Q4 Explain the objective of accounting
- Q5 What do you mean by financial accounting? state its end products
- Q6 What do you mean by users of accounting information? Explain
- Q7 What is double entry system of accounting? How does its differ from single entry system ?
- Q8 Explain accounting as a language of business?
- Q9 Name accounting as a source of inform
- Q10 Explain the limitations of accounting
- Q11 Explain the various branches of accounting
- Q12 Explain the following
- (a) Window dressing in accounting
 - (b) Reliability
 - (c) Relevance
 - (d) Understandability
 - (e) Comparability
 - (f) Based on historical cost

Part - B

Q1 Classify the following into assets, liabilities, expenses and revenue

- (a) SPurchase
- (b) Capital
- (c) Furniture
- (d) Goodwill
- (e) patents
- (f) copyright
- (g) rent
- (h) salary
- (i) carriage
- (j) freight
- (k) royalty paid
- (l) bills payable
- (m) bills receivable
- (n) loan
- (o) outstanding
- (p) accrued
- (q) debenture
- (r) commission (cr)
- (s) interest (dr)

Q2 Explain the following terms

- (a) revenue
- (b) trade payable
- (c) fictitious assets
- (d) working capital
- (e) drawings
- (f) bank overdraft
- (g) capital
- (h) business transaction
- (i) inventory
- (j) goods

Q3 What is the value involved in classifying the assets into current and noncurrent?

Q4 Out of the following assets which one is not an intangible assets

- (a) patents (b) investments (c) furniture (d) building

Q5 Godrej ltd. Imported from Germany one machinery for sale in india and another machinery for production purpose. Will you treat them goods or fixed assets.

Q6 Explain the following accounting concepts

- (a) going concern concept
- (b) consistency
- (c) monitory
- (d) dual concept
- (e) prudence
- (f) business entity

Q7 Explain the rule for Dr. and Cr. For journal entry preparation

Q8 Prepare journal entries from the following information

- (a) Business started with cash Rs100000 and furniture Rs50000
- (b) Goods purchase Rs50000
- (c) Goods purchase from Hari Rs30000
- (d) Goods sold Rs30000

- (e) Goods sold Rs20000 by Hari
- (f) Goods sold Rs30000 to Hari
- (g) Furniture purchased Rs100000
- (h) Motor Car purchased Rs20000
- (i) Rent paid to Ram Rs100000
- (j) Salary received from Hari Rs20000
- (k) Deposited into Bank Rs100000

BUSINESS STUDIES

Project work

Students you are required to collect the information on any one of the topic out of the following for the project work

- (1) Find out form local sample business unit the various objectives they pursue
- (2) Problems of setting up and running the business units
- (3) Study of profile of a sole trader/ partnership
- (4) Visit to an industry**

Students are require to collect the following information

- (a) Nature of the business organization
- (b) Determinants for location of business units
- (c) Form of business enterprises : sole proprietorship, partnership
- (d) Social responsibilities discharged towards workers, investors, society, environment, government.
- (e) Code of conducts for employers and employees.
- (f) Any other observation

(5) Visit to a mall

- (a) Numbers of floors, shops occupied and unoccupied
 - (b) Nature of shops, their ownership status.
 - (c) Nature of goods dealt in local brands and international brand
 - (d) Service business shops – spas, gym, saloons etc
 - (e) Rented spaces and owned spaces
 - (f) Special attractions of the mall
 - (g) Innovative facilities
 - (h) Parking
 - (i) Any other information
- (6) Which kind of business form is best any why? Explain?

MATHEMATICS

1. Find the degree in angle subtended at the center of a circle of diameter 50cm by an arc of length 11cm.
2. A circular wire of radius 3cm is cut and bent so as to lie along the circumference of a hoop whose radius is 48cm. Find the angle in degrees.
3. Find the value of : I. $\sin(765^\circ)$ II. $\operatorname{Cosec}(-1110^\circ)$ III. $\sin(11 \pi/3)$
4. Evaluate: $\tan(13 \pi/12)$
5. Find the value of $\cos \pi/5$, $\cos 2 \pi/5$, $\cos 4 \pi/5$, $\cos 8 \pi/5$.
6. Find the minimum value of $3 \cos x + 4 \sin x + 8$.
7. Find the value of : $\sin 18^\circ$, $\cos 54^\circ$, $\cos 72^\circ$, $\sin 36^\circ$.
8. Find the value of $\sqrt{3} \operatorname{Cosec} 20^\circ - \sec 20^\circ$.
9. Solve $\sqrt{3} \cos x + \sin x = \sqrt{2}$.
10. Prove that $\cot 2x + \tan x = \operatorname{cosec} 2x$
11. $A + B + C = 90^\circ$. Prove that the points A(-4, 6, 10), B(2, 4, 6)
12. Let p(n) be statement n(n + 1) is an even number then find p(6).
13. Using PMI, show that $1 + \frac{1}{(1+2)} + \frac{1}{(1+2+3)} + \dots + \frac{1}{(1+2+3+\dots+n)} = \frac{2n}{(n+1)}$

14. By PMI show that $(1 + \frac{3}{1})(1 + \frac{5}{4})(1 + \frac{7}{9}) \dots (1 + \frac{2n+1}{n^2}) = (n+1)^2$

15. Show by PMI, $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} \dots \frac{1}{2^n} = 1 - \frac{1}{2^n}$

16. If $\left(\frac{1+i}{1-i} \right)^2 = 1$, then find the least positive integral value of m.

17. Evaluate $(1+i)^4$.

18. Express $(1+3i)^{-1}$ in form of $(a+ib)$.

19. Let $z_1 = 2 - i$, $z_2 = -2+i$ Find $\text{Re } z_1 z_2$

20. Find the conjugate of $\sqrt{-3} + 4i^2$

ECONOMICS

Learn the topics in the class thoroughly and answer the following question.

1. Are the following microeconomics studies or macroeconomics studies?
A) general price level
B) supply of money
C) consumption demand
D) product pricing
E) market supply of apples
2. Distinguish between microeconomics and macroeconomics. Give examples.
3. Distinguish between positive economics and normative economics. Give example of each.
4. Why do central problems arise?
5. Explain the problem 'how to produce' with examples.
6. Explain the central problem of 'what to produce'.
7. Explain the central problem of 'for whom' with examples.
8. State reasons why does an economic problem arise.
9. Define opportunity cost and explain it with the help of an example.
10. State any three assumptions on which a 'production possibility curve' is based.

हिंदी

1. किसी एक विषय पर परियोजना बनाएं -
'प्रेमचंद एक परिचय' अथवा 'कृष्णा सोबती'
2. अर्धवार्षिक परीक्षा पाठ्यक्रम के पाठ पढ़िए तथा प्रत्येक पाठ से दस-दस प्रश्न बनाकर उत्तर कॉपी में लिखिए।
3. कोई उपन्यास पढ़कर निम्न मूल्यांकन बिंदुओं के आधार पर समीक्षा लिखिए
*उपन्यास तथा लेखक का नाम
*लेखक का परिचय
*उपन्यास का सार
*उपन्यास के बारे में आपके विचार

COMPUTER

1. Write a program to calculate the sum of four integers in python language
2. Write a program to calculate the percentage of five subjects.

3. Write a program to find the greatest number among three integer value.
4. Write a program to calculate simple interest.
5. Write a program to perform swapping with using third variable
6. Write a program to perform swapping without using third variable
7. Write a program to perform all arithmetic operation.

Note: Do all this program of python in your classwork notebook.

PH.EDUCATION

PREPARE PRACTICAL FILE WITH THE FOLLOWING TOPICS :-

- 1. Game of your choice (as per syllabus).**
2. Sport awards (any 5 with photographic paper , project file.)
3. Any 5 Aasans (describe with help of diagram.)

GREEN FIELD PUBLIC SCHOOL
CLASS - XI SCIENCE
HOLIDAY HOME WORK (2019-20)

ENGLISH

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PHYSICS

Attempt all the questions.

1. What is the difference between A^0 and A.U.?

2 i) $3.0\text{m/s}^2 = \text{----- km/hr}^2$

(ii) $6.67 \times 10^{-11} \text{Nm}^2/\text{kg}^2 = \text{----- g}^{-1}\text{cm}^3\text{s}^{-2}$

3. A radar signal is beamed towards a planet from the earth and its echo is received seven minutes later. Calculate the velocity of the signal, if the distance between the planet and the earth is 6.3×10^{10} m?

4. Calculate the time taken by the light to pass through a nucleus of diameter 1.56×10^{-16} m. (speed of light is 3×10^8 m/s)

5. When the planet Jupiter is at a distance of 824.7 million kilometers from the Earth, its angular diameter is measured to be of arc. Calculate the diameter of Jupiter.

6. Under what condition is the relation $s = vt$ correct?

7. Sameer went on his bike from Delhi to Gurgaon at a speed of 60 km/hr and came back at a speed of 40 km/hr. What is his average speed for entire journey.

8. Displacement of a particle is given by the expression $x = 3t^2 + 7t - 9$, where x is in meter and t is in seconds. What is acceleration?

9. A particle is thrown upwards. It attains a height (h) after 5 seconds and again after 9 s comes back. What is the speed of the particle at a height h ?

10. A balloon is ascending at the rate of 4.9 m/s. A packet is dropped from the balloon when situated at a height of 245 m. How long does it take the packet to reach the ground? What is its final velocity?

11. A boy standing on a stationary lift (open from above) throws a ball upwards with the maximum initial speed he can, equal to 49 m/s. How much time does the ball take to return to his hands? If the lift starts moving up with a uniform speed of 5 m/s and the boy again throws the ball up with the maximum speed he can, how long does the ball take to return to his hands?

12. A stone is dropped from the top of a cliff and is found to travel 44.1 m during the last second before it reaches the ground. What is the height of the cliff? $g = 9.8 \text{ m/s}^2$

13. A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Plot the $x-t$ graph of his motion. Determine graphically and otherwise how long the drunkard takes to fall in a pit 13 m away from the start.

14. A ball is dropped from a height of 90 m on a floor. At each collision with the floor, the ball loses one tenth of its speed. Plot the speed-time graph of its motion between $t = 0$ to 12 s.

15. A man walks on a straight road from his home to a market 2.5 km away with a speed of 5 km hr⁻¹.

¹. Finding the market closed, he instantly turns and walks back home with a speed of 7.5 km h⁻¹,

What is the

(a) magnitude of average velocity, and

(b) average speed of the man over the interval of time (i) 0 to 30 min, (ii) 0 to 50 min, 0 to 40 min?

CHEMISTRY

Q1. (a) NO and NO₂ are two oxides of nitrogen - (i) Which law of chemical combination is illustrated by these compounds? (ii) State the law.

(b) Calculate the mass of a magnesium atom in grams. (c) What is molality?

Q2. (a) Determine the number of moles present in 0.55 mg of electrons.

(b) Give the empirical formula of the following : C₆H₁₂O₆, C₆H₆, CH₃COOH, C₆H₆Cl₆.

(c) Two element carbon and hydrogen combine to form C₂H₆, C₂H₄ and C₂H₂. Identify the law illustrated here.

Q3. Empirical formula represents the simplest whole number ratio of various atoms present in a compound.

(a) Give the relation between empirical formula and molecular formula.

(b) An organic compound has the following percentage composition - C = 12.36% , H = 2.13 % , Br = 85 %. Its vapour density is 94. Find its molecular formula.

(c) What is mole fraction?

Q4. (a) When nitrogen and hydrogen combine to form ammonia, the ratio between the volumes of gaseous reactants and products is 1:3:2. Name the law of chemical combination illustrated here.

(b) A compound is made up of two elements A and B has A = 70% and B = 30%. The relative number of moles of A and B in the compound are 1.25 and 1.88 respectively. If the molar mass of the compound is 160, Find the molecular formula of the compound.

Q5. 12 g of ¹²C contains Avogadro's number of carbon atoms. - (a) Give the Avogadro's number. (b) The mass of 2 moles of ammonia gas is - (i) 2g (ii) 1.2 x 10²²g (iii) 17g (iv) 34 g

(c) Calculate the volume of ammonia gas produced at STP when 140 g of nitrogen gas reacts with 30 g of hydrogen gas.

Q6. A given compound always contains exactly the same proportion of elements by weight (a) (i) Name the above law. (ii) Write the name of the scientist who proposed this law.

(b) Calculate the number of molecules in each of the following : (i) 1 g of N₂ (ii) 1 g CO₂ .

Q7. Hydrogen combines with oxygen to form two different compounds namely water and hydrogen peroxide . (a) Which law is obeyed by this combination? (b) State the law.

Q8. (a) How many moles of di-oxygen are present in 64 g of di - oxygen?

(b) The following data was obtained when di-nitrogen and di-oxygen reacted together to form different. [Mass of N₂ 14 g , 16g, 14g, 28g Mass of O₂ = 32g , 28g, 32g , 80 g].

Name the law of chemical combination obeyed by the above experiment data.

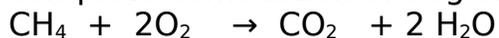
(c) Define empirical formula. How is it related to the molecular formula of a compound?

Q9. (a) Atoms have very small mass and so usually the mass of atoms are given relative to a standard called atomic mass unit. What is atomic mass unit (amu)?

(b) In a reaction $A + B_2 \rightarrow AB_2$, identify the limiting reagent in the reaction mixture containing 5 mol A and 2.5 mol B.

(c) Calculate the mass of NaOH required to make 500ml of 0.5M aqueous solution.

Q10. The mole concept helps in handling a large number of atoms and molecules in stoichiometric calculations. (a) Define 1 mol. (b) What is the number of hydrogen atoms in 1 mole of methane? (c) Calculate the amount of carbon dioxide formed by the complete combustion of 80g of methane as per the reaction:



Q11. (a) Mole is a very large number to indicate the number of atoms, molecules etc. Write another name for one mole.

(b) (i) How is the molecular formula different from that of empirical formula? (ii) An organic compound on analysis gave the following composition. C = 40%, H = 6.66% and O = 53.34%. Calculate its molecular formula if its molecular mass is 90.

Q12. The combination of elements to form compounds is governed by the laws of chemical combination.

(a) Hydrogen combines with oxygen to form compounds, namely water and hydrogen peroxide. State and illustrate the related law of chemical combination.

(b) What is meant by limiting reagent in a chemical reaction?

(c) 28 g of nitrogen is mixed with 12 g of hydrogen to form ammonia as per the reaction $N_2 + 3H_2 \rightarrow 2NH_3$. Which is the limiting reagent in this reaction?

Q13. The laws of chemical combination govern the formation of compounds from elements. (a) State the law of conservation of mass. Who put forward this law.

(b) The following data is obtained when di-nitrogen and di-oxygen react together to form different compounds. Sl. No. Mass of di-nitrogen (in g) 14, 14, 28, 28 mass of di-oxygen in g 16, 32, 48, 80 which law of chemical combination is illustrated by the above experimental data? Explain.

Q14. The laws of chemical combination are on the basis of atomic theory. (a) Name the law of chemical combination illustrated by the pair of compounds, CO and CO₂. (b) State and explain the

law of conservation of mass. (c) Calculate the molarity of a solution containing 8 g of NaOH in 500mL of water.

Q15. One mole of the amount of substance that contains as many particles as 12g of C-12 isotope of carbon. (a) What do you mean by molar mass of compound. (b) Calculate the number of moles in one liter of water (Density of water = 1g/mL). Also calculate the number of water molecules in one liter of water.

Q16. If the mass % of the various elements of the compound is known, its empirical formula can be calculated. (a) What is mass percent? (b) A compound contains H = 4.07%, C = 24.27%, Cl = 71.65%. Its molecular mass is 98.96. What are the empirical and molecular formulas.

Q17. Calculate the number of moles of oxygen required to produce 240 g of MgO by burning Mg metal.

Q18. One gram atom of an element contains 6.02×10^{23} atoms. (a) Find the number of oxygen atoms in 4 g of O₂. (b) Which is heavier, one oxygen atom or 10 hydrogen atoms?

MATHEMATICS

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14. By PMI show that $(1 + \frac{3}{1})(1 + \frac{5}{4})(1 + \frac{7}{9}) \dots (1 + \frac{2n+1}{n^2}) \leq (n+1)^2$
15. Show by PMI, $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots + \frac{1}{2^n} = 1 - \frac{1}{2^n}$
16. If $\left(\frac{1+i}{1-i} \right)^2 = 1$, then find the least positive integral value of m.
17. Evaluate $(1+i)^4$.
18. Express $(1+3i)^{-1}$ in form of (a+ib).
19. Let $z_1 = 2 - i$, $z_2 = -2+i$ Find $\operatorname{Re} Z_1 Z_2$
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BIOLOGY

CH-1

1. Name the largest aquatic and terrestrial animals?
2. Define the homeostasis?
3. Name the energy currency of the living cell.
4. Who coined the term "species"?
5. Define nomenclature.
6. Who gave the term "Taxonomy"?
7. Who introduced the term binomial nomenclature?
8. What is the standard size of herbarium sheets?
9. What is a monograph?
10. Differentiate between botanical gardens and herbarium as taxonomical aids?
11. Differentiate between the binomial and polynomial nomenclature.
12. What are couplets and lead in a taxonomic key?
13. Differentiate between anabolism and catabolism, with an example of each.
14. Describe the main steps involved in the preparation of a herbarium.
15. Enumerate the Rule / principles of nomenclature.
16. Write the scientific name of modern man?
17. Write the full form of
 - i. ICBN ii. ICNCP ICVN

18. Where the National botanical research institute is situated ?
19. Which was the first National park established in India?
20. Who proposed the concept of genus?

Ch- 2

1. Who discovered virus?
2. Who coined the term virus?

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*लेखक का परिचय
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*उपन्यास के बारे में आपके विचार

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Note: Do all this program of python in your classwork notebook.

PH. EDUCATION

PREPARE PRACTICAL FILE WITH THE FOLLOWING TOPICS :-

1. Game of your choice (as per syllabus).
2. Sport awards (any 5 with photographic paper , project file.)
3. Any 5 Asanas(describe with help of diagram.)

