

HOLIDAY HOMEWORK

CLASS XI

SUBJECT ENGLISH CORE

Q.1. As you all know our doctors, forces, government, and cleaners are fighting against coronavirus. This poster is to support all those people who are corona warriors and fighting with corona virus for us.

Draft a poster on Fight Coronavirus.

Q.2. Design a poster on the topic –‘How CNG can be the best alternative to diesel and petrol.’ [50 words]

Q.3. Describe ‘How coronavirus is affecting your dreams – and what to do about it. [120-150 words]

Q.4. On behalf of the Principal of your school, draft an advertisement inviting applications for the post of PGT (English) teacher.

Q.5. Learn and revise all the syllabus of PERIODIC TEST-I.

NORTH-EX PUBLIC SCHOOL(Session 2020-21)

CLASS 11

HOLIDAY HOMEWORK

MATHEMATICS

Q1.In a class of 100 students, 35 like science and 45 like math. 10 like both. How many like either of them and how many like neither?

Q2.There are 30 students in a class. Among them, 8 students are learning both English and French. A total of 18 students are learning English. If every student is learning at least one language, how many students are learning French in total?

Q3. Among a group of students, 50 played cricket, 50 played hockey and 40 played volley ball. 15 played both cricket and hockey, 20 played both hockey and volley ball, 15 played cricket and volley ball and 10 played all three. If every student played at least one game, find the number of students and how many played only cricket, only hockey and only volley ball?

Q4. Fill in the blanks

a) The Cartesian product $P \times P$ has 9 elements among which are found $(-2, 0)$ and $(0, 2)$. the set P is _____ and the remaining elements of $P \times P$ _____

(b) The Function $g(x)=6x^2+3x-2$ The value of $g(-1)$ is _____

Q5.Find the domain and range of the following real function:

(1) $y=x^2$

(2) $y=-|x|$

Q6. Find the radius of the circle in which a central angle of 60° intercepts an arc of length 37.4 cm (use $\pi = 22/7$).

Q7. A wheel makes 360 revolutions in one minute. Through how many radians does it turn in one second?

Q8.Show that $\tan 3x \times \tan 2x \times \tan x = \tan 3x - \tan 2x - \tan x$.

Q9.Prove by M.I. that 4^n-1 is divisible by 3 , for each natural number n.

NORTH-EX PUBLIC SCHOOL (Session 2020-21)
Class – 11th
Subject -Accountancy
Holidays Homework

Q1:(Preparation of accounting equation)

Mr. X commenced his business on 1st April, 2008 by introducing capital of Rs. 50,000. During the year, following transactions had taken place:

- a) Bought Machine for cash. ` 20,000
- b) Purchased goods for 24,000
- c) Sold goods (costing Rs. 9,500) to Om for cash. 20,000
- d) Purchased goods from Azhar. 14,000
- e) Introduced additional capital. 16,000
- f) Commission received in advance. 2,000
- g) Paid to Creditors Rs. 10,500 in full settlement.
- h) Bought Computer for his personal use. 10,000
- i) Rent paid for the year. 10,000
- j) Payment for stationery 400
- k) Sold goods (costing Rs 12,000) for Rs 16,000. Out of which Rs. 2,000 received in cash.

Show the above transactions in accounting equations.

Q2: From the following particulars of Mr. Atif, prepare the accounting equation:

- a) Started business with cash for Rs. 4,50,000 and Building Rs. 20,00,000.
- b) Paid into bank Rs. 2,00,000.
- c) Purchase furniture for cash Rs. 40,000.
- d) Purchased goods for cash Rs. 2,00,000.
- e) Sold goods (costing Rs. 3,000) for cash Rs. 3,400.
- f) Expenses outstanding worth Rs. 2,000.
- g) Received securities deposit from tenants Rs. 5,500.
- h) Sold goods to Mohan (costing Rs 20,000) for Rs. 10,000.

i) Paid telephone expenses Rs 19,100.

Q3: Show the accounting equation related to business of Miss. Reetu with the help of following transactions:

- (i) Invested Rs. 50,00,000 as capital in business.
- (ii) Purchased a building on cash from Hari Mohan Rs. 25,00,000 by taking a loan from bank.
- (iii) Paid interest on loan Rs. 40,000 and installment of Rs. 3,50,000.
- (iv) Purchased goods from Rajiv Rs. 2,00,000.
- (v) Returned goods to Rajiv costing Rs. 30,000.
- (vi) Sold goods worth Rs. 60,000 to Rohan.
- (vii) Received Rs. 20,000 from Rohan.
- (viii) Took goods of Rs. 15,000 from business for personal use.
- (ix) Accrued interest Rs. 15,000.
- (x) Commission received in advance Rs. 20,000.

Q4: Vijay had undertaken the following transactions during the year 2005-06. Prepare an accounting equation to show the effect on his assets, liabilities and capital :

- a. Started business with cash Rs 2,30,000
- b. Purchased goods for cash Rs 40,000 and on credit Rs 30,000
- c. Purchased a television for personal use worth Rs 16,000.
- d. Sold goods for cash Rs 24,000 (costing Rs 17,000).
- e. Received commission Rs 4,300.
- f. Stationery and postage expenses paid Rs 1,000.
- g. Cash payment made for household expenses Rs 21,000.
- h. Paid to Creditors Rs 19,500.

Q5: Malti started a business with cash Rs 2,00,000 and furniture Rs 6,000. During the year, the following transactions took place.

- a. Purchased stock from Neeraj for Rs 80,000.
- b. Paid rent for the year Rs. 24,000.
- c. Postage and stationery charges paid Rs 100.

- d. Paid to Neeraj Rs 50,000.
- e. Goods purchased for cash Rs 10,000.
- f. Purchases of Rs. 2,000 returned and cash received
- g. Sold goods to Amit (costing Rs 6,000) at a profit of 20% on Sale.
- h. Depreciation charged on furniture Rs. 100.

Q6: Show the accounting equation on the basis of the following transactions :

- a. Jeet commenced business with Rs 11,50,000.
- b. Wages paid Rs 4,000 and outstanding Rs 6,000.
- c. Goods purchased for Rs 80,000.
- d. Computer purchased from Star Computers worth Rs 30,000 and paid half the amount in cash.
- e. Invested Rs. 90,000 into the bank.
- f. Goods purchased from Vaibhav for Rs 8,000 and made the payment by cheque.
- g. Purchased a building for Rs. 6,00,000 and the payment was made by cash.
- h. 1/2 of the stock available was sold to Mohit at a profit of 25% on cost. Also prepare a Balance Sheet with the final balances.

NORTH-EX PUBLIC SCHOOL (Session 2020-21)
Class – 11th
Subject –Business Studies
Holidays Homework

1. Define business. Explain the characteristics of business (any four)
- 2 “Commerce is the sum total of activities that remove hindrances in the free flow of goods from producers to consumers.” Explain.
- Q.3 Explain any six factors that are important to be considered while starting a business.
- Q.4 Write difference among industry, commerce and trade on any five basis.
- Q.5 “Profit maximization can’t be the sole objective of a business”. Explain
- Q6 .Discuss the merits and demerits of sole proprietorship Business.
- Q7. What do you mean by business risk ? Explain ?

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

CLASS - XI

Subject: Informatics Practices

Holiday Homework

NOTE: Revise all worksheets shared over website & answer the following questions in your school notebook.

1. Write a short note on technology used in 5th generation computers.
2. In which generation integrated Circuits were used? Write a short note on it.
3. When were UNIVAC developed and by whom?
4. What are the components of a computer system? Explain it with a flow diagram.
5. Differentiate between input and output devices.
6. What do you understand by memory unit? Explain Primary & Secondary memory.
7. Sheenu is preparing a lecture on Output device like monitor. Discuss
 - a) Give some advantages of the output device used by Sheenu.
 - b) Write some disadvantages of the same output device also.
8. Describe the main applications of the computer.
9. Which one of the magnetic storage disc is also known as diskette? Explain it with it's advantages & disadvantages.
10. Make a list of various memory units used in computers.
11. What do you understand by System & Application Software?
12. Write a short note Cloud Computing & Cloud Services.
13. Write the applications of Python.
14. Name the device which is used to read barcode. Explain in short.
15. Arrange the following memory units in ascending order of their storage capacities :
Kilobyte, Byte, Terabyte, Megabyte.

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

Class – XI

Subject – Biology

Holiday homework

1. Answer the following questions:
 - (a) What are the taxonomical aids? Name them.
 - (b) What are halophiles
 - (c) Give the features on the basis of which five kingdom classification has been based.
2. Give short notes on virus.
3. Write about the following:
 - (a) Cyanobacteria
 - (b) Euglenoids
 - (c) Phycomycetes
4. Give hierarchical classification of house fly, mango and wheat .
Learn and write the 10 botanical name and zoological name of plants and animals found in your locality.
5. Prepare an investigatory project on any of the given topics:
 - i. New discoveries in the field of medicines, genetics or biotechnology
 - ii. Cancer a deadly disease-the preventive and protective measures
 - iii. Animal and plant physiology.

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

Class – XI

Subject – Physics

Holiday homework

1. Consider a simple pendulum. The period of oscillation of the simple pendulum depends on its length 'l' and acceleration due to gravity 'g'. Derive the expression for its period of oscillation by the method of dimensions.
2. The moon is observed from two diametrically opposite points A and B on the earth. The angle θ subtended at the moon by the two directions of observation is $1^{\circ}54'$. Given the diameter of the earth to be 1.27×10^7 m, compute the distance of the moon from the earth.
3. The length of a rod as measured in an experiment was found to be 2.48 m, 2.46 m, 2.49 m, 2.50 m and 2.48 m. Find the average length, the absolute error in each observation and the percentage error.
4. The velocity 'v' of water waves depends on the wave length ' λ ' density of water ' ρ ' and the acceleration due to gravity 'g'. Deduce by the method of dimensions the relationship between these quantities.
5. In an experiment refractive index of glass was observed to be 1.45, 1.56, 1.54, 1.44, 1.54 and 1.53 calculate (i) mean value of refractive index, (ii) fractional error, and (iii) percentage error.
6. Prepare an investigatory project.

North Ex Public School
XI CHEMISTRY

HOLIDAYS HOMEWORK

- (1) Make one chart related to Your XI Chemistry Syllabus.
- (2) Complete your Chemistry note book.(Chapter-1)
- (3) Complete the synopsis of Working Project.

- (4) Read and make Notes for chapter-2 and Chapter-3

- (5) Write complete chapter of Environmental Chemistry in Chemistry Note book.

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NORTH-EX PUBLIC SCHOOL (Session 2020-21)
CLASS - XI
Subject: Computer Science
Holiday Homework

NOTE: Revise all worksheets shared over website & answer the following questions in your school notebook.

1. What do you understand by Cyber Safety? Write a short note on it.
2. Mention the bullet points to keep in mind for safely web browsing.
3. Differentiate between Input & Output devices.
4. Which part is known as brain of computer? Write a short note on it.
5. Differentiate between RAM & ROM.
6. Explain system software & application software.
7. What do you understand by Netiquettes? Describe some of them.
8. How does a website track you?
9. What are the uses rules for effective use of social networking sites?
10. How can you ensure the confidentiality of information?
11. What do you understand by Cyber Crime? What are the reasons for increase in Cybercrime?
12. Write a short note on Cyber Stalking.
13. What do you understand by VPN?
14. Mention different types of threats of cyber security.
15. What is the significance of a firewall in a computer's security scheme?

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

Class – XI

Subject – History

Holiday Homework

1. Describe the different ways of obtaining food by the earliest humans. do we have evidence for various ways of obtaining food?
2. Make a flowchart showing the origin of human beings .
3. Describe the main features of Mesopotamian Civilization.
4. Write a short note on important cities of Mesopotamian Civilization
a) Ur
b) Uruk
c) Mari
5. Describe the nature of the Roman Republic. how far it last and by whom was it overthrown?
6. Describe the social, political, cultural and economic conditions of the Roman empire.

NOTE- All Students are required to do all chapter wise NCERT questions of chapter 1 2 3 and assignment is to be done in your fair registers

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

Class – XI

Subject – political Science

Holiday Homework

Q1 What is constitution? Write its functions.

Q2 Why we need constitution?

Q3 How was the Indian constitution made?

Q4 Make a list of fundamental rights and all the fundamental rights thoroughly .

Q5 Explain the election system of India.

Q6 Write a short note on Independent Election commission.

Q7 What is Executive?

Q8 Why we need Parliament?

NOTE- All Students are required to do all chapter wise NCERT questions of chapter 1 ,2, 3 ,4 and 5 and assignment is to be done your in fair registers

NORTH-EX PUBLIC SCHOOL (Session 2020-21)

CLASS - XI

Subject: Physical Education

Holiday Homework

1. Chapter 1 – Changing trends & Career in Physical Education
 - a. All Question answer learn & write
 - b. Read chapter & learn all multiple-choice questions

2. Chapter 2- Olympic Value Education
 - a. All question answer learn & write
 - b. Read chapter & learn all multiple-choice questions

Holiday Home Work

Class - XI

Subject - हिन्दी

1. प्रकृत विषयों पर निबन्ध लिखिए ।
 - (क) पहला सुख निरोगी काया
 - (ख) बाल मजदूरी : एक अभिशाप
 - (ग) सर्वशिक्षा अभियान
2. शास्त्रीय संगीत व चित्रपट संगीत के विषय में लिखिए ।
3. कबीर ने नियम और धर्म का पालन करने वाले लोगों की किन कमियों की ओर संकेत किया है?
4. अज्ञानी गुरुओं की शरण में जाने पर शिष्यों की क्या गति होती है?
5. निम्नलिखित विषयों पर एक-एक अनुच्छेद लिखिए ।
 - (क) समाचार-पत्र
 - (ख) रेडियो
 - (ग) टेलीविजन
 - (घ) सिनेमा
 - (ङ) इंटरनेट

North Ex public school

Jain Nagar

Holiday homework – 2020-21

Subject -Economics ,class-XI

Q.1 Define PPC with the help of suitable example

Q.2 What do you mean by Economic problems? Why do these arise.

Q.3 Explain Central problems of an Economy.

Q.4 Distinguish between Positive and Normative Economics.

Q.5 Distinguish between Micro and Macro economics.

Q.6 Why is PPC concave to the point of