

NORTH-EX PUBLIC SCHOOL, JAIN NAGAR
SUMMER HOLIDAYS HOMEWORK, 2019-20
CLASS-XI-B

ENGLISH

1. Read the newspaper daily and find out samples of the following:
 - a. 5 Report
 - b. 5 Posters
 - c. 8 Advertisements [eg-situation vacant, lost and found, missing and obituary]Paste them neatly in the notebook.
2. Design a poster on the topic –‘How CNG can be the best alternative to diesel and petrol.’ [50 words]
3. Describe your favorite holiday destination and write what makes it a ‘happening tourist destination’.[120-150 words]
4. Learn and revise all the syllabus of PERIODIC TEST-I.

MATHS

1. Let $A = \{1, 2, 3, 5\}$ and $B = \{4, 6, 9\}$. Define a relation R from A to B by $R = \{(x, y) : x - y \text{ is odd natural number, } x \in A, y \in B\}$. Write R in roster form.
2. Find the domain and range of the function $f(x) = 1/\sqrt{5-x}$
3. Prove that : $\cos 2A \cos A/2 - \cos 3A \cos 9A/2 = \sin 5A \sin 5A/2$
4. In a survey of 600 students in a school, 150 students were found to be taking tea and 225 taking coffee, 100 were taking both tea and coffee. Find how many students were taking neither tea nor coffee ?
5. If $A = \{11, 2, 3, 41\}$, $B = \{1, 3, 5, 7\}$, find the relation “is less than” from A to B .
6. Describe the following set in roster form : $\{x \in \mathbb{N} : x^2 < 70\}$.
7. Given $A = \{1, 3, 5\}$ and $B = \{2, 41\}$. List the elements of relation R , if $R = \{(x, y) \in A \times B : x > y\}$.
8. How many elements has $P(A)$, if $A = \Phi$?
9. Find the value of $\tan (13\pi/12)$

ACCOUNTS

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.

BUSINESS STUDIES

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.
3. Explain any six factors that are important to be considered while starting a business.
4. Write difference among industry, commerce and trade on any five basis.
5. "Profit maximization can't be the sole objective of a business". Explain
6. Discuss the merits and demerits of sole proprietorship Business.

ECONOMICS

1. Explain central problems of an economy.
2. Explain the relationship between Total Utility and Marginal Utility.
3. Explain consumer equilibrium with the help of IC approach.
4. Distinguish between microeconomics and macroeconomics.
5. Explain four factors influencing demand for a commodity.

INFORMATICS PRACTICES

1. Prepare a project report on MySQL. Submit a printed copy of it including all the types of commands of MySQL. Give enough examples to explain the purpose of each command. Also show the outputs of each query.
2. Make a chart on the functional Components of a Computer.
3. Revise the syllabus covered for the upcoming periodic test.

PHYSICAL EDUCATION

1. What is the role of International Olympic Committee and role of Indian Olympic Association?
2. Explain Dronacharya Award and Arjuna Award.
3. What do you mean by physical education? Explain with help of two quotations.
4. Write about Changing Trends of Physical education in India.
5. Write in detail about the physical education courses available in India.