## St. Mary's School, Dwarka <br> Winter Holiday Homework Class - XI (Commerce Section)

## General Instructions:

1) The work should be done neatly and in a systematic way.
2) The given questions are to be done in your respective subject notebooks.

## Subject- English Core

Q1. You are Sachin/Somya, the School Leader of St. John School, Pune. In an age where youths are mostly addicted to gadgets and other devices, you feel the need to spread awareness about maintaining a health life. Write a speech in about 150-200 words on 'The Importance of Exercise and Yoga in a Student's Life'.

## Q2. Complete the following dialogue by filling the blank.

Asha: Where do you get your clothes stitched?
Neha: I get a) $\qquad$ in Kamla Nagar.
Asha: They are beautiful. Who buys the material for your dresses?
Neha: The material b) $\qquad$ my mother.
Asha: And who designs your outfits?
Neha: c) $\qquad$ my sister.

Asha: You wore a red dress with embroidery yesterday. From where did you buy?
Neha: I d) $\qquad$ from my mother's friend who is a designer.

Q3. Read the following paragraph and fill in the blanks with appropriate form of verbs. ( $1 / 2 \times 4=2$ )
As soon as the shot wounded the elephant, it a) $\qquad$ (rush) back into the forest. I made an attempt to b) $\qquad$ (run) after it but c) $\qquad$ (can) not catch it. I d) $\qquad$ (lose) the animal in the dark and I returned home disappointed.
Q4. Read the sentence given below. They are not in the correct sequential order. Rewrite the sentences in proper sequence.
i)
a) A fierce battle was fought.
b) Emperor Ashoka wished to expand the Mauryan Empire.
c) Over a hundred thousand people died.
d) He attacked the kingdom of Kalinga with a large army.
ii)
a) It was kept in the dining room waiting to be hung.
b) A picture had come from the frame makers.
c) Aunt Podger asked what was to be done with it.
d) "Oh, you leave that to me, I'll do the job", Uncle Podger said.

Q5. (i) Read the extract given below and answer the following question.
Mrs Pearson: (taunting him) Why don't you get off to your club? Special night tonight, isn't it? They'll be waiting for you-wanting to have a good laugh. Go on then. Don't disappoint 'em.
i) Why is Mrs. Pearson unhappy with her husband?
a) He fought with him
b) She was not given money by him.
c) Her husband did not respect and value her.
d) He made fun of her.
ii) The tone of the speaker is $\qquad$ .
a) persuasive
b) kind
c) sarcastic
d) filled with rage
iii) The expression 'wanting to have a good laugh' means that $\qquad$ .
a) George's club buddies are waiting for his jokes.
b) He himself is made fun of by his friends.
c) His friends love to have him around.
d) George's friends tell him the latest jokes every day.
(ii) What is the parallel drawn between rain and music in the poem 'The Voice of Rain'. Explain in

> 40-60 words.
(iii) 'Gangadharpant had not been to this Bombay before.' Show how this Bombay is different from the one he knew in 100-120 words.

## Subject: Business Studies

Q. 1 i) Mr. Ramakant was asked by the management to do the financial planning by identifying most suitable source of raising long-term funds for financing the investment decisions. Identify which of the following is not the long-term source of finance.
(a). Equity Shares
(b). ADR
(c). Retained earnings
(d). Public deposits
ii) $\qquad$ commerce is mainly used to facilitate interaction of management and workers within a given business firm using VPN technology.
(a). B 2 C
(b). B2B
(c). C 2 B
(d). Intra B
iii) This is a short-term source of finance extended by one trader to another for the purchase of goods and services. It facilitates the purchase of suppliers without immediate payment. Identify the source of finance stated above.
(a). Commercial paper
(b). Retained earnings
(c). Subsidy
(d). Trade Credit
Q. 2 Inn Trin Ltd is a well-known company in telecom sector. The company is committed to treat everyone fairly with respect and dignity, regardless of difference in age, caste, creed, gender etc. It not only abides by all the laws and pay taxes on time, but also make serve it participate in social services projects. It prefers to give fair advertisement without any exaggeration and change fairly from its customers and maintain quality. The Mangers work effectively and efficiently and minimize waste to maximize the return to their shareholders. The company is running a charitable hospital to provide medical facility to the people of that area.
In the context of the above case, By quoting the lines from the paragraph, identify any three different Interest groups towards which company is fulfilling its social responsibilities. 3
Q. 3 Ping Pong Ltd.is planning to float an issue of equity shares in the market in next six months. The directors of the company are also of the opinion that the company should raise some portion of funds from International Capital market through equity. In context of above case.
(a). State any one merit of raising funds through equity shares.
(b). Explain the sources through which it can raise funds through international market through equity.
Q. 4 Pluto Electricals Ltd. has been successfully manufacturing electrical accessories for the past ten years. As the profit margin is good, the company has been managing all the financial requirements of the business through the profits reinvested in the business. Identify the source of finance being mentioned in the given case and state its merits.
Q. 5 NTB bearings Ltd. was the first company to manufacture needle roller bearings in India. For over 40 years NTB bearings Ltd has pioneered the leading edge of bearing technology and today over most of the vehicles on Indian roads run on NTB parts. The directors of NTB Bearings Ltd. want to modernize their plant and machinery with latest technology at the cost of ₹ 50 lakhs. They approached an organisation which will not only provide financial assistance but also best technical advice from where the machinery can be imported.

On the basis of aforesaid information about NTB Bearings Ltd answer the following questions:
a) Identify and explain the source of finance used by company to meet its funds requirement.
b) State any four merits of raising funds through the source specified in part (a).

## Subject: Accountancy

Q. 1 Cash Book of a trader shows a debit bank balance of Rs. 6400. While comparing it with PassBook, it was found that a cheque of Rs. 7200 issued was recorded on the debit side of CashBook. The Pass-Book balance at this point of time would be......
(A) Nil
(B) Rs. 8000 Cr .
(C) Rs. 8000 Dr.
(D) None of above
Q. 2 Define Provision? What is the importance of creating a provision? 3
Q. 3 Pass Journal entries to rectify the following errors:
(i) An amount of Rs. 600 due from Harish which has been written off as bad debt in previous year, was unexpectedly recovered and has been credited to the personal account of Harish.
(ii) Old machinery sold for Rs.2,000 to Ram recorded through Sales book as Rs.1,800 and posted to the credit of Ram as Rs.1,200.
(iii) Payment of Rs. 500 to Mohan and Rs. 600 to Sohan was made but Mohan was debited with Rs. 600 and Sohan with Rs. 500
(iv) Cash Sale Rs.2,000 were posted to commission account as Rs. 200
Q. 4 Pragya Ltd. bought a machinery worth Rs $1,00,000$ on 1st July 2013 and purchased another machinery on $1^{\text {st }}$ October 2013 for Rs. 1,50,000. On 1st October 2015, 1/4th part of machinery purchased on 1st July 2013 was sold for Rs. 12,000. Prepare the machinery account in books of Pragya Ltd. till 31st March 2016 when depreciation is charged @ $10 \%$ p.a. by original cost method. 6
Q. 5 From the following information ascertain the balance that would appear in the Bank Pass

Book of Anand on $31^{\text {st }}$ March 2014:
6
(i) Bank overdraft as per cash book on $31^{\text {st }}$ March 2014 Rs. 63,400.
(ii) Interest on overdraft for 6 months ended $31^{\text {st }}$ March 2014, Rs. 1,600 entered in the passbook.
(iii) Bank charges of ${ }^{`} 300$ for the above period are debited in the passbook.
(iv) Cheques issued but not cashed prior to $31^{\text {st }}$ March 2014, amounted to Rs. 11,680.
(v) Cheques paid into the bank but not cleared before $31^{\text {st }}$ March 2014 were for Rs. 21,700.
(vi) Interest on investments collected by the bank and credited in the passbook, Rs. 12,000.

## Subject-Economics

Q1. Explain the implication of very large number of buyers under perfect competition.
Q2. Why is a firm price taker under perfect competition? Explain with the help of a schedule and diagram.

| Marks | $0-10$ | $10-20$ | $20-30$ | $30-40$ | $40-50$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number <br> of <br> Students | 8 | 30 | 40 | 12 | 10 |

Q3. Find out mean and median marks of the following marks distribution for 100 students.(3)
Q4. There is an increase in market demand and market supply simultaneously. How will it affect the market equilibrium?

Q5. A measure of central tendency is a value that represents a typical, or central, entry of a data set. The three most commonly used measures of central tendency are the mean, median and mode. A way to measure the variation (or spread) of a data set is to find the range, variance and standard deviation. Annual Salaries: Sample annual salaries (in the thousands of dollars) for accountants in Dallas are listed.
41.650 .049 .538 .739 .944 .744 .747 .840 .5
A) Using the annual salaries data set, find the mean, median, and mode. Mean.
B) Interpret the meaning of each measure of central tendency (mean, median, mode) with respect to annual salaries?
C) If the sample annual salary for Dallas is changed by adding the data point 72.3 Compute the mean.
D) Which average is more suitable in this situation?
E) Write any two demerits of median.

## Subject: Informatics Practices

## Answer the following:

Q1. Do as directed:
(a) If a database "Employee" exists, which MySQL command helps you to start working in that database?
(b) Sahil created a table in MySQL. Later on, he found that there should have been another column in the table. Which command should he use to add another column to the table?
(c) Purnima, a student of class XI, created a table "Book". Price is a column of this table. To find the details of books whose prices have not been entered.

Help Purnima to write the query.
(d) Rama is not able to change a value in a column to NULL. What constraint did she specify when she created the table?
(e) Distinguish between a Primary key and Candidate key with the help of suitable example of each.
(f) The LastName column of a table "Directory" is given below:

## LastName

Batra
Sehgal
Bhatia
Sharma
Mehta

Based on this information, find the output of the following queries:
i) SELECT lastname FROM Directory WHERE lastname like "_a\%";
ii)SELECT lastname FROM Directory WHERE lastname not like "\%a";

Q2. Consider the following tables FACULTY and COURSES. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (vi)

| F_ID | Fname | Lname | Hire_date | Salary |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 102 | Amit | Mishra | $12-10-1998$ | 12000 |  |
| 103 | Nitin | Vyas | $24-12-1994$ | 8000 |  |
| 104 | Rakshit | Soni | $18-5-2001$ | 14000 |  |
| 105 | Rashmi | Malhotra | $11-9-2004$ | 11000 |  |
| 106 | Sulekha | Srivastava | $5-6-2006$ | 10000 |  |
| COURSES |  |  |  |  |  |
| C_ID | F_ID | Cname |  |  |  |
| C21 | 102 | Grid Computing | Fees | 40000 |  |
| C22 | 106 | System Design | 16000 |  |  |
| C23 | 104 | Computer Security | 8000 |  |  |
| C24 | 106 | Human Biology | 15000 |  |  |
| C25 | 102 | Computer Network | 20000 |  |  |
| C26 | 105 | Visual Basic | 6000 |  |  |

i) To display details of those Faculties whose salary is greater than 12000 .
ii) To display the details of courses whose fees is in the range of 15000 to 50000 (both values included).
iii) To increase the fees of all courses by 500 of "System Design" Course.
iv) To display details of those courses which are taught by 'Sulekha' in descending order of courses.
v) Select COUNT(DISTINCT F_ID) from COURSES;
vi) Select MIN(Salary) from FACULTY,COURSES where COURSES.F_ID =FACULTY.F_ID;

Q3. Write the following programs in Python and complete the practical file.
a) Write a program to calculate the total number of zeros, positive and negative elements in the list.
b) Write a program to read a list of n integers (positive as well as negative). Create two new lists, one having all positive numbers and the other having all negative numbers from the given list. Print all the three lists.
c) Write a program to read elements of a list and do the following.
i) The program should ask for the position of the element to be deleted from the list and delete the element at the desired position in the list.
ii) The program should ask for the value of the element to be deleted from the list and delete this value from the list.
d) Write a Python program to find the highest 2 values in a dictionary.
e) Write a Python script to merge two Python dictionaries.
f) Write a program that repeatedly asks the user to enter product names and prices. Store all of these in a dictionary whose keys are the product names and whose values are the price. When the user is done entering products and price, allow them to repeatedly enter a product name and print the corresponding price or a message if the product is not in dictionary.
g) Create a dictionary whose keys are month name and whose values are number of days in the corresponding month:
(a) ask the user to enter the month name and use the dictionary to tell how many days are in month.
(b) print out all of the keys in alphabetical order.
(c) print out all of the month with 31 days.
(d) print out the (key - value) pair sorted by the number of the days in each month
h) Create any two tables in SQL and perform the following operations:
a) CREATE TABLE ..
b) INSERT INTO.
c) SELECT queries (any 5)
d) ALTER TABLE....
e) UPDATE TABLENAME SET ..

The screenshots of SQL working should be pasted in the practical file.
Q4. a) Why is dictionary termed as an unordered collection of objects?
b) The following code has two dictionaries with tuples as keys. While one of these dictionaries being successfully created, the other is giving some error. Find out which dictionary will be successfully and which one will give error and correct it:
dict $1=\{(1,2):[1,2],(3,4):[3,4]\}$
$\operatorname{dict} 2=\{([1],[2]):[1,2]:([3],[4]):[3,4]\}$
Q5 Difference between indexing and slicing.

## Subject - Mathematics

Q.1) There are 12 points in a plane, out of which 5 are collinear. How many lines can be constructed by joining two points?
Q.2) Convert $\mathrm{i}(1+\mathrm{i})$ in the polar form.
Q.3) Find the domain and the range of the following functions:
(i) $\left\{\left(\mathrm{x}, \frac{x^{2}-1}{x-1} ; \mathrm{x} \in \mathrm{R}, \mathrm{x} \neq 1\right\}\right.$
(ii) $\left\{\left(\mathrm{x}, \sqrt{4-x^{\wedge} 2}\right): \mathrm{x} \in R\right\}$
Q.4) Prove that $\cos 6 x=32 \cos ^{6} x-48 \cos ^{4} x+18 \cos ^{2} x-1$
Q.5) (i) Show graphically that the following system of linear inequalities has no solution:

$$
\begin{equation*}
x+2 y \leq 3,3 x+4 y \geq 12, x \geq 0, y \geq 1 \tag{2.5+2.5}
\end{equation*}
$$

(ii) Find the general solution of the equation: $5 \cos ^{2} \theta+7 \sin ^{2} \theta-6=0$

