NOIDA PUBLIC SR. SEC. SCHOOL, NOIDA
A-78, Sector-23, noida-201301, g.b.Ngr.u.p
SUMMER VACATION ASSIGNMENT (2018 -19) Class-XII, COMMERCE

General Instructions:

Dear Parents

1. Make sure all syllabus of Unit Test 1 must be revised once in the last week of vacation as it becomes easier for student to retain and adjust after the long break.

2. Kindly make sure that your ward must come to school in neat and clean proper school uniform and proper haircut.

3. Your ward must bring Summer Break Assignment completed by him/her during holidays and positively submit by 2nd July 2018 to the class teacher.

4. The school will reopen on 2nd July 2018 at its usual timings i.e. 7:30am.

5. Summer Vacation Assignment is also available at www.noidapublicschool.com

ENGLISH

Q1. Draft the following notices:

1. You are the President of Nehru Yuva Club, Delhi. You have planned to take a trekking trip for 15 days to Rohtang Pass during the summer vacation. Write a notice giving all necessary information to invite participants for the trekking programme.

2. You are the Secretary of YuvaKranti Colony Welfare Association. Write a notice to be circulated   to the residents informing them that there will be no water supply in your colony for two days (mention dates) due to necessary repairs and maintenance work.

Q2. Draft the following advertisements:

1. You are Mohan/ Mohini of SantNischal Singh Public School, Yamuna Nagar. Your school wants teachers for senior classes to teach English and Maths. Write a suitable advertisement to be published in a local newspaper in the column "SITUATION VACANT'.

2. You are the Senior Manager of Sahni Travels and Tours. Draft an advertisement offering an attractive package tour to Kullu-Manali. Mention discounts and offers as well.

3. You are Deepak Raj. You want to sell your laptop. Draft a classified advertisement for a local newspaper giving necessary details.

Q3. Letters:

1. You are Saurabh/Surabhi, a student of Class XII of Sarvodaya School, Dilshad Colony. You were very much disturbed by the leakage of CBSE Class XII Economics Examination papers. Write a letter to the Editor of a local newspaper expressing the mental agony that the students go through when such incidents happen and give your view about how to deal with the problem.

2. There has been an increase in the incidents of chain snatching and pickpocketing recently in your locality. Write a letter to the superintendent of police requesting him to increase the police patrolling in your area so that such incidents are minimised. You are Ravish/Raunak of T-25 Civil Lines, Jodhpur.

3. Write a letter to the Editor of a national daily on the mushrooming of various coaching centres And how extra tuition have become a common feature in a student's life. You are Vineet /Veena .

Q4. TEXT BOOK – FLAMINGO: VALUE BASED QUESTIONS

The Last Lesson
1. People tend to ignore important things until they are denied those things. When they realise the importance, it is too late. Elucidate the statement with reference to the story 'The Last Lesson'.
2. The story 'The Last Lesson' takes the reader back to the Franco-Prussian war and the capture of Alsace-Lorraine by the Prussians. Describe this transition as seen through the eyes of a young boy Franz.

Lost Spring
1. The unhygienic conditions in slums pose a serious risk to the health of children like Saheb and Mukesh living there. Do you think better living conditions can contribute to a positive thinking? Write an article on 'The importance of hygiene to be healthy'.
2. How is the line 'Few airplanes fly over Firozabad' symbolically significant?

Deep Water

1. Douglas feared water even as years rolled by. He tried his best to overcome his fear. Comment on the statement 'Refusal to live with a handicap is the stepping stone for greater achievement.'
2. Douglas was a fighter par excellence. Do you agree? Illustrate.

Rattrap
1. 'Why the devil did I take that fellow's money? Now I am sitting in the trap and will never get out of it'. What made the peddler think thus? Do you think he's repenting his action? What lesson do you learn from this event?

Indigo
1. Resolution needs complete sacrifice of one's time wealth and physical state. In view of this, highlight the role of RajkumarShukla as resolute in the lesson Índigo.

Tiger King
1. The sport of hunting was a status symbol for the people in authority. How far does the story 'The Tiger King' prove this statement? What does this tell you about these people.

ACCOUNTANCY
Comprehensive Project- As per the CBSE guidelines every student have to prepare a comprehensive accountancy project. In the project students are required to make a Sole proprietorship accounts for a year ending.

- Prepare cover page.
- Write twenty financial transactions related to
  Capital and Revenue Expenditure
  Capital and Revenue Receipt
  Pre-operative Expenses.
- Journalize them.
- Post into Ledger
- Prepare Trial Balance
- Prepare Trading And Profit and Loss Account , Balance Sheet.

Practice Questions

Q.1 State the conditions under which capital balances may change under the system of a Fixed Capital Account.

Q.2 Chandar and Suman are partners in a firm without a partnership deed. Chandar's capital is Rs. 10,000 and Suman's capital is Rs. 14,000. Chander has advanced a loan of Rs. 5000 and claim interest @ 12% p.a. State whether his claim is valid or not.

Q.3 A, B and C are partners sharing profits and losses in the ratio of 3:2:1. Their fixed capitals are Rs. 1,50,000, Rs. 1,00,000 and Rs. 80,000 respectively. Profit for the year after providing interest on capital was Rs. 60,000, which was wrongly transferred to partners equally. After distribution of profit it was found that interest on capital provided to them @ 10% instead of 12% . Pass necessary adjustment entry.
Show your working clearly.

Q.4 Ravi and Mohan were partner in a firm sharing profits in the ratio of 7:5. Their respective fixed capitals were Ravi Rs. 10,00,000 and Mohan Rs. 7,00,000. The partnership deed provided for the following:-
(i) Interest on capital @ 12% p.a.
(ii) Ravi's salary Rs. 6000 per month and Mohan's salary Rs. 60000 per year.
The profit for the year ended 31-03-2007 was Rs. 5,04,000 which was distributed equally without providing for the above. Pass an adjustment Entry.

Q.5 What is meant by sacrificing ratio?

Q.6 The capital of a firm of Arpit and Prajwal is Rs. 10,00,000. The market rate of return is 15% and the goodwill of the firm has been valued Rs. 1,80,000 at two years purchase of super profits. Find the average profits of the firm.

Q.7 A business has earned average profit of Rs. 60,000 during the last few years. The assets of the business are Rs. 5,40,000 and its external liabilities are Rs. 80,000. The normal rate of return is 10%. Calculate the value of goodwill on the basis of capitalisation of super profits.

Q.8 Ajay and Naveen are partners sharing profits in the ratio of 5:3. Surinder is admitted in to the firm for 1/4th share in the profit which he acquires from Ajay and Naveen in the ratio of 2:1. Calculate the new profit sharing ratio.

Q.9 Aarti and Bharti are partners sharing profits in the ratio of 5:3. They admit Shital for 1/4th share and agree to share between them in the ratio of 2:1 in future. Calculate new and sacrificing ratio.

Q.10 A, B and C were partners in the ratio of 5:4:1. On 31st Dec. 2006 their balance sheet showed a reserve fund of Rs. 65,000, P&L A/C (Loss) of Rs. 45,000. On 1st January, 2007, the partners decided to change their profit sharing ratio to 9:6:5. For this purpose goodwill was valued at Rs. 1,50,000.
The partners do not want to distribute reserves and losses and also do not want to record goodwill.

You are required to pass single journal entry for the above.

Q. X, Y and Z are sharing profits and losses in the ratio of 5:3:2. They decide to share future profits and losses in the ratio of 2:3:5 with effect from 1st April, 2002. They also decide to record the effect of the reserves without affecting their book figures, by passing a single adjusting entry.

Book Figure

General Reserve Rs. 40,000

Profit 2 loss A/C (Cr) Rs. 10,000

Advertisement Suspense A/C(Dr) Rs. 20,000

Pass the necessary single adjusting entry.

BUSINESS STUDIES

Every student have to prepare a project on marketing of any consumer product. Project shouid include the following details---

- [ ] Identify and select one product which you may like to manufacture .
- [ ] Why have you selected thi product
- [ ] Find out 5 competitive brands that exist in the market
- [ ] What is the name of your product
- [ ] Does your product have any range? Give details.
- [ ] Draw a logo for your product.

Practice Questions

1. "If the organization is heading towards higher levels of achievement, it signifies an existence of good management and vice versa." State the feature of Management highlighted in the statement.

2. State the meaning of Efficiency and Effectiveness in Management.
3. To attain the objectives of the firm , the management of "Tata Motors"
   Spends a considerable amount of its profits for the Mission "Educate the Girl child" State the objective
   it strives to achieve.
4. Which level of Management is referred as "First line Managers"
5. How do Principles of Management help in "Scientific decisions"
6. "Anything - Management = Zero" Comment.
7. Define the term "Coordination" State two features of coordination.
8. State three functions of Operational Level of Management.
9. State three differences between cooperation and coordination.
10. What is meant by "Simplification" State two objectives.
11. Mr Mohan, the supervisor of the factory was ill and had to take a leave for
    A week. In his absence, Mr Rajan , the seniormost worker was entrusted with the responsibility of
    Managing and allocation of resources , especially spare parts, tools etc. But he found it very difficult as
    the resources were not placed at right place, so they could not be traced quickly. Which principle of
    Fayol is overlooked by Mr Mohan. Explain briefly.
12. Discuss the concept of "Mental revolution" in scientific Management.
13. Discuss four features of the principles of Management.
14. State the basic objective of the following techniques of scientific
    Management-
    a. Time study   b. Motion study   c. Method study   d. Fatigue Study.
15. Management is a pure Art" Comment

ECONOMICS

Make a project file on any one topic from the following given list.
1. Production possibility curve.
5. Central bank and its functions.
2. Demand and its determinants.
6. Balance of payment.
3. Supply and its determinants.
7. Government budget and it components
4. Monopoly
8. Oligopoly

Micro Economics Book 1
Q1: Distinguish between a centrally plan economy and market plan economy
Q2: What are the components of Micro economics and Macro economics
Q3: Unemployment is reduced due to measure taken by government. State its economics value in the context of production possibilities frontier
Q4: Explain the Central Problem "For whom to produce"
Q5: The government has started promoting foreign capital. What is the economics value in the context of production possibilities frontier?
Q6: Why is a production possibility curve concave to the origin? Explain.
Q7: Large number of technical training institutions has been started by the government. State its economic value in the context of production possibilities frontier
Q8: Define utility. Explain the law of diminishing marginal utility.

Macro Economics Book 2
Q1: Distinguish between final goods and intermediate goods. Give an example of each.
Q2: Define Sticks and Flows. Give an example of each
Q3: Explain the circular flow of income.
Q4: Distinguish between consumption good and capital goods. Which of these are final goods?
Q5: Assuming real income to be Rs. 200 Crore and price index to be 135, calculate nominal income
Q7: Explain "Non-Monetary exchanges" as a limitation of using gross domestic product as an index of welfare of a country.
Q8. Distinguish between domestic product and national product.
Q9. If real GDP is Rs 200 and price index (with base =100) is 110, calculate real GDP.
.

MATHEMATICS

Chapter - Matrices

Q.1 If for any 2x2 square matrix A, A(adjA) = $\begin{bmatrix} 8 & 0 \\ 0 & 8 \end{bmatrix}$, then write the value of $|A|$.

Q.2 Find matrix A such that $\begin{matrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{matrix}$ A = $\begin{matrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{matrix}$

Q.3 Determine the product $\begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix} \begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$ and use it to solve the system of equations x-y+z = 4 , x -2y -2z = 9 , 2x +y + 3z = 1 .

Q.4 Obtain the inverse of the following matrix using elementary operations

$$A = \begin{pmatrix} 0 & 1 & 2 \\ 1 & 2 & 3 \\ 3 & 1 & 1 \end{pmatrix}$$

Q.5 $A = \begin{pmatrix} 2 & -3 & 5 \\ 3 & 2 & -4 \\ 1 & 1 & -2 \end{pmatrix}$ find using A^{-1}, solve the system of the equations.

$2x-3y+5z = 11, 3x+2y-4z = -5, x+y - 2z = -3$

Q.6 If $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$, then write A^{-1}.

Q.7 If $A = \begin{pmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{pmatrix}$, find $A^2 - 5A + 16I$

Q.8 If $2 \begin{bmatrix} 3 & 4 \\ 5 & x \end{bmatrix} + \begin{bmatrix} 1 & y \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 7 & 0 \\ 10 & 5 \end{bmatrix}$ find (x- y).

Q.9 Solve the following matrix equation for x: $[x \ 1] \begin{bmatrix} 1 & 0 \\ -2 & 0 \end{bmatrix} = O$

Q.10 If A is a square matrix such that $A^2 = A$ then write the value of $(I + A)^2$ 0- 3A.

Q.11 If the matrix $A = \begin{bmatrix} 0 & a & -3 \\ 2 & 0 & -1 \\ b & 1 & 0 \end{bmatrix}$ is skew symmetric, find the value of a and b.

Q.12 Given $A = \begin{bmatrix} 2 & -3 \\ -4 & 7 \end{bmatrix}$, compute A^{-1} and show that $2A^{-1} = 9I - A$

Q.13 Using elementary row transformation, find the inverse of the matrix

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 5 & 7 \\ -2 & -4 & -5 \end{bmatrix}$$

Q.14 Let $A = \begin{bmatrix} 3 & 2 & 5 \\ 4 & 1 & 3 \\ 0 & 6 & 7 \end{bmatrix}$. Express A as sum of two matrices such that one is symmetric and the other is skew symmetric

Chapter – Determinants

Q.1 Using properties of determinants, prove that $\begin{vmatrix} 1 & 1 & 1 + 3x \\ 1 + 3y & 1 & 1 \\ 1 & 1 + 3z & 1 \end{vmatrix} = 9 \ (3xyz+xy+yz+zx)$

Q.2 Using properties of determinants, prove that $\begin{vmatrix} a^2 + 2a & 2a + 1 & 1 \\ 2a + 1 & a + 2 & 1 \\ 3 & 3 & 1 \end{vmatrix} = (a-1)^3$

Q.3 If x,y,z are different numbers and Δ $\begin{vmatrix} x & x^2 & 1+x^3 \\ y & y^2 & 1+y^3 \\ z & z^2 & 1+z^3 \end{vmatrix} = 0$, then show that $1+xyz = 0$

Q.4 Using properties of determinants, prove that $\begin{vmatrix} 1 & x & x+1 \\ 2x & x(x-1) & x(x+1) \\ 3x(x-1) & x(x-1)(x-2) & x(x+1)(x-1) \end{vmatrix} = 6\,x^2$
$(1-x^2)$

Q.5 If $\begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$, write the value of x .

Q.6 Using properties of determinants, prove that $\begin{vmatrix} 2y & y-z-x & 2y \\ 2z & 2z & z-x-y \\ x-y-z & 2x & 2x \end{vmatrix} = (x+y+z)^3$

Q.7 Write the value of the following $\begin{vmatrix} 102 & 18 & 36 \\ 1 & 3 & 4 \\ 17 & 3 & 6 \end{vmatrix}$

Q.8 Using properties of determinants, prove that $\begin{vmatrix} a & a+b & a+b+c \\ 2a & 3a+2b & 4a+3b+2c \\ 3a & 6a+3b & 10a+6b+3c \end{vmatrix} = a^3$

Q.9 Using properties of determinants, prove that $\begin{vmatrix} \alpha & \beta & \gamma \\ \alpha^2 & \beta^2 & \gamma^2 \\ \beta+\gamma & \gamma+\alpha & \alpha+\beta \end{vmatrix} = (\alpha-\beta)(\beta-\gamma)(\gamma-\alpha)\,(\alpha+\beta+\gamma)$

Q.10 Evaluate $\begin{vmatrix} a+ib & c+id \\ -c+id & a-ib \end{vmatrix}$

Q.11 Find the cofactor of a_{12} in the following: $\begin{vmatrix} 2 & -3 & 5 \\ 6 & 0 & 4 \\ 1 & 5 & -7 \end{vmatrix}$

Chapter – Inverse Trigonometric

Q.1 $\tan^{-1}\sqrt{3} - \cot^{-1}\sqrt{3}$

Q.2 Prove that: $3\sin^{-1}x = \sin^{-1}(3x-4x^3)$

Q.3 $\tan^{-1}\frac{(1+\cos x)}{\sin x}$

Q.4 If $\tan^{-1}\frac{x-3}{x-4} + \tan^{-1}\frac{x+3}{x+4} = \frac{\pi}{4}$

Q.5 $\sin\left(\frac{\pi}{3} - \sin^{-1}\left(\frac{1}{2}\right)\right)$ is equal to

Q.6 Prove that $\tan^{-1}\frac{\sqrt{1+x}\,-\sqrt{1-x}}{\sqrt{1+x}\,+\sqrt{1+x}} = \frac{\pi}{4} - \frac{1}{2}\cos^{-1}x$

Q.7 Prove that: $2\tan^{-1}(\frac{\sqrt{a-b}}{\sqrt{a+b}} \tan\frac{x}{2}) = \cos^{-1}(\frac{a\cos x+b}{a+b\cos x})$

Q.8 If $\sin (\sin^{-1}\frac{1}{2} + \cos^{-1} x) = 1$ then, find the value of x .

Q.9 Prove that $2 \tan^{-1}(\frac{1}{5}) + \sec^{-1}(\frac{5\sqrt{2}}{7}) + 2 \tan^{-1}(\frac{1}{8}) = \frac{\pi}{4}$

Q.10 Prove that $\cot^{-1} \frac{1+\sin x + 1-\sin x}{\sqrt{1+\sin x}-\sqrt{1-\sin x}} = \frac{x}{2}$

Q.11 Prove that: $\sin^{-1}(\frac{63}{65}) = \sin^{-1}(\frac{5}{13}) + \cos^{-1}(\frac{3}{5})$

Q.12 Prove that: $2 \tan^{-1}(\sin x) = \tan^{-1}(2\sec x)$ x $\neq \frac{\pi}{2}$

Q.13 Evaluate: $\sin [\frac{\pi}{3} - \sin^{-1}(-\frac{1}{2})]$

Q.14 Prove that: $\tan^{-1}\frac{1}{3} + \tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{7} + \tan^{-1}\frac{1}{8} = \frac{\pi}{4}$

PHYSICAL EDUCATION

1. Explain about various committees and their responsibility.
2. Explain the advantages of a league tournament.
3. Explain the advantages of knock-out tournament.
4. Explain the meaning and objectives of adventure sports.
5. Explain the material in adventure sports.
6. How creating leaders through physical activities.
7. Explain in detail about macro nutrients.
8. Explain in detail about micro nutrients.
9. Explain in detail about "Bulimia nervosa".
10. What do you mean by "food myths & food intolerance".
11. Make a chart showing different YogAsanas (Roll No. 1 to 10 Surya Namaskar, 11 to 20 Sarp Asana, 20 to 30 Kapalbhati & AnulomVilom, 30 and above - other Asanas

MULTIMEDIA & WEB TECHNOLOGY

1. Enter the percentage and check if the student is pass or fail.
2. Enter a number and check if it is a multiple of 5 or not.
3. Convert temperature from Fahrenheit to Celsius. C=(f-32)/1.8
4. Find perimeter of rectangle, square, circle and triangle using switch case.
5. Prepare 5 webpages by using various tags.
6. Search any two multimedia software and complete project on it. (Photoshop , Flash , Movie maker etc)
   REVISE CHAPTER HTML AND WEB SCRIPTING AND CONTROL STATEMENT