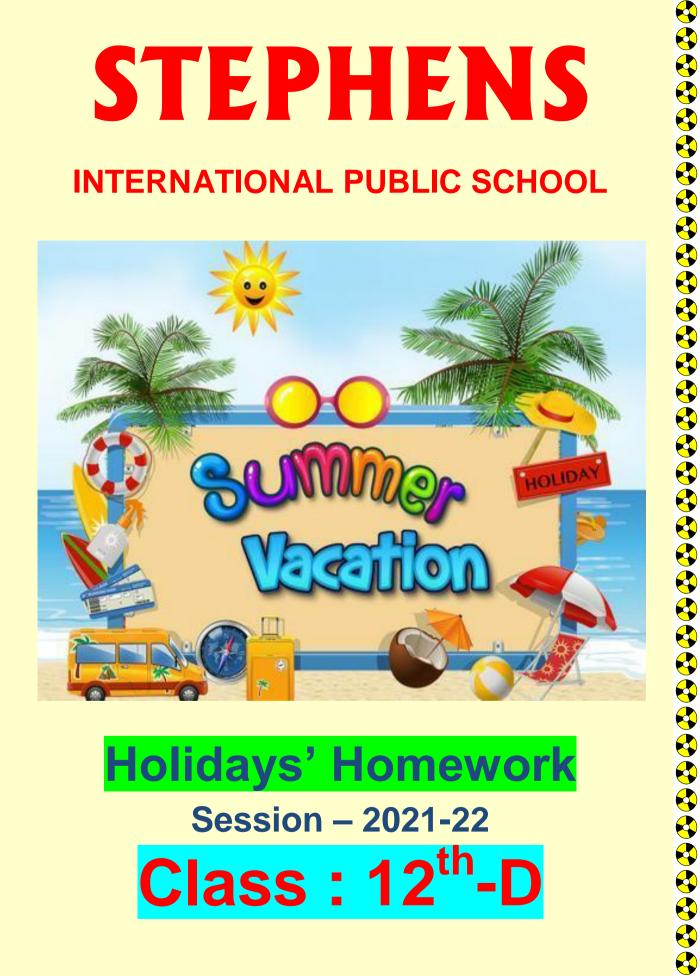
&&&&&&&&&

STEPHENS

INTERNATIONAL PUBLIC SCHOOL



Holidays' Homework

Session – 2021-22

Class: 12th

Subject : English

Task - 1

- (A) On the eve of World Environment Day, your school has decided to have a face painting competition. Draft a notice in not more than 50 words for your school notice board giving necessary information. You are Nimita/Naresh the Head Boy/ Girl J M K International School Jharkhand.
- (B) Students leave their prestigious seats in IIT, IIM etc. and pursue high level courses abroad. Government spends a lot of money on these students and all this money goes waste when students opt for courses in foreign countries. Write an article on Brain Drain Among Youth in about 150 -200 words.

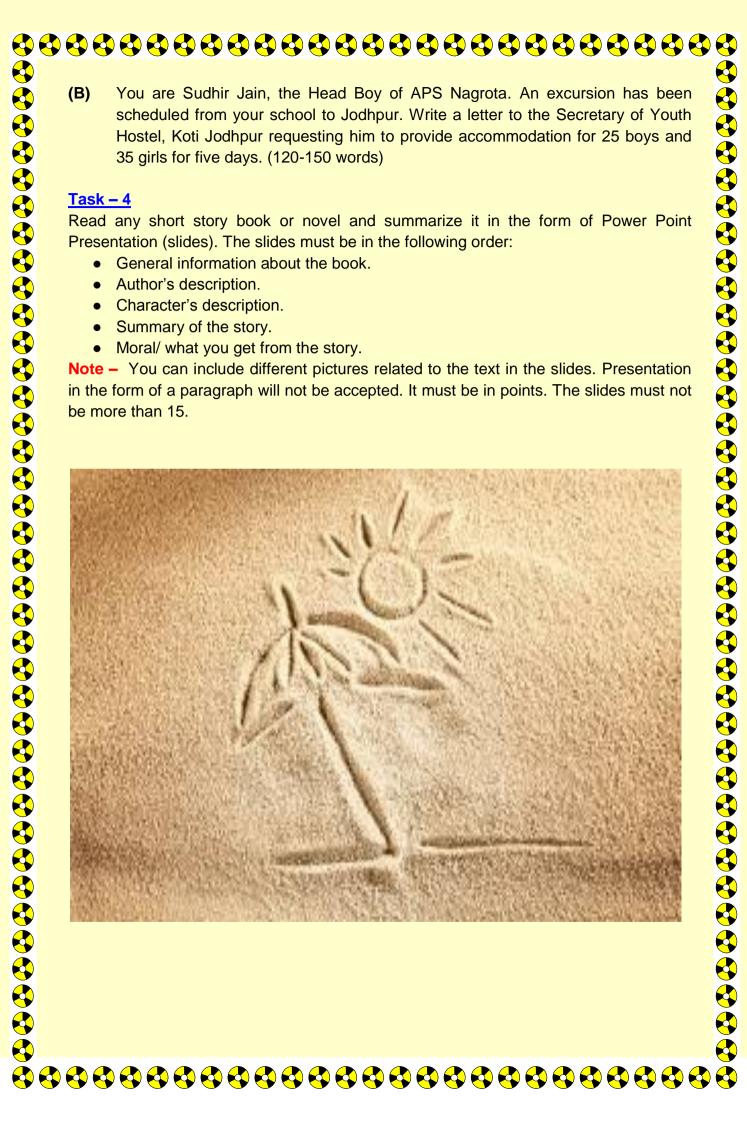
Task - 2

- (A) Design a digital poster inviting the general public to an E-learning fair.
- (B) Your company organise My Trip C-45 Damini Road Delhi claims to offer the cheapest air tickets for any destination by an airline besides offering free tour guide facilities. Draft a digital advertisement in not more than 50 words giving all relevant details.
- (C) You have recently started an Institute for ABACUS for school children. Draft a digital advertisement for a national daily giving all the relevant details.

Task 3

(A) You want to do a short term on line course on etiquette development during the summer holidays. Write a letter to the Director of Personal Care Hyderabad enquiring about the course details. Sign as Kumud of 148 Raja Garden, Jammu.





Subject : Political Science

A. Project Work.

Some suggested topics are:

- The importance of elections in a democratic country especially in India.
- Partition Theory behind it and its legacy.
- One Party Dominance Congress to BJP.
- Change in India's Foreign Policy.
- India's relation with its neighbours (Choose any one country)
- Emergency Reasons and Consequences
- Coalition Politics Emergence and success of UPA and NDA
- New centre of power EU, BRICS, ASEAN, SAARC (Choose Any one and explain.
- UN and its agencies.
- Environment Sustainable development Need of the hour.
- Globalisation Eco., Pol., and Cultural Impact on Third World
- Choose Any other topic based on the syllabus.

General Instructions:

- 1. It should be a handwritten project on a A4 size sheet.
- 2. Project should be summed up in 12-15 pages.
- 3. It should be well researched and pictorial.
- 4. Title/ Cover page, acknowledgement, list of contents, Bibliography, headings and sub-headings are a must.
- B. Read and revise the chapters taught in the class.
- C. Read the newspaper daily especially the editorial page.
- D. Answer the following questions in a separate notebook.
 - 1. What do you understand by theory of Deterrence?
 - 2. "The NAM is no longer relevant". Do you agree with this view? Give reasons in support of your answer.
 - 3. Explain the Cuban Missile Crisis.
 - 4. Analyse India's changing relationship with post-communist Russia.
 - 5. Explain any 4 causes behind the disintegration of Soviet Union.

6. The end of the Soviet bloc meant the emergence of many new countries. Explain the statement.

Subject : History

GENERAL QUESTIONS:

- Q1. Why were the power of the jotedar, within the village, more effective than that of zamindar? Explain?
- Q2. How the zamindar manage to retain control over their zamindari?
- Q3. Why fifth report became the basis of intense debate in England?
- Q4. Why did the Santhals revolt against the British rule?
- Q5. What explain the anger of the Deccan ryots against the money-lender?
- Q6. Read a biography of any one leaders of the revolt of 1857 and check the source, do these include reports newspaper or any difference. Prepare a report on your findings.

Note: Learn the chapters 1, 2, 5, 10

FEW SUGGESTIVE TOPICS FOR PROJECT:



- 1. The mysteries behind the mounds of dead- Mohenjo- daro.
- 2. Buddha path to enlightenment.
- 3. "Mahatma Gandhi"- A legendary soul.
- 4. Insight and Reflection of Bernier's notions of The Mughal Empire.
- 5. An depth study to understand spritual archeology in the sub continent
- 6. The Bhakti or Sufi movement in India.

LIST OF MAP WORK

- Mature Harappan sites
- Mahajanpad and cities
- Distribution of Ashokan inscriptions
- Main center of the revolt 1857

NOTE:

• Each student has to choose any one topic from the above topic for the project

- Project must be done in a project sheets or use separate file for project.
- · Relevant picture must be pasted in project work
- Map work must be done in a map book.
- Write the answer of general questions on separate notebook.

Subject: Economics GENERAL QUESTIONS: Α. Q1. How does the central bank of a country control the supply of money in an economy? **Q2**. Explain the problem of double counting. Also state one of the ways of avoiding this problem. Q3. Explain the difference between Microeconomics and Macroeconomics. Give suitable examples. Q4. Distinguish between average propensity to consume and marginal propensity to consume using a numerical example Q5. Do you agree that MPS cannot be negative, but APS can be? В. **PROJECT WORK** Micro and Small scale industries Food supply channel in India **Contemporary Employment in India** Disinvestment policy of the government Goods and services tax Act and it Impact on GDP **Health Expenditure(of any state) Human development Index Inclusive Growth strategy** Self-help group Trends in credit availability in India Monetary policy committee and its functions Role of RBI in control of credit Government budget and its components Trends in budgetary condition of India **Exchange Rate determination-Methods and Techniques Currency war reasons and repercussions** Livestock Backbone of rural India Alternate fuel types and importance Minimum support prices Relation between Stock Price Index and Economic Health of Nation Waste Management in India – Need of the hour Minimum Wage Rate - approach and Application Digital India- Step towards the future Rain Water Harvesting - a solution to water crises Vertical Farming - an alternate way Silk Route- Revival of the past Make in India - The way ahead **Bumper Production- Boon or Bane for the farmer** Rise of Concrete Jungle - Trend Analysis - Organic Farming - Back to the Any other newspaper article and its evaluation on basis of Economic principles Note:-Each student has to choose any one from the above topic for project. Project topic must be done in project sheets. There must be 20-25 sheets for a given project. Relevant pictures must be pasted in blank page of sheets.

Subject: Mathematics

To be ready for tomorrow's opportunities, do your homework today. Learn, refine your skills, and focus on growth.

CHAPTER – MATERICS

Q1. If a matrix has 12 elements, what are the possible orders it can have?

Q2. If
$$\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$$
, find the value of $x + y$.

Q3. For a 2 × 2 matrix, A = [a_{ij}] whose elements are given by [a_{ij}] = $\frac{i}{j}$, write the value of a_{12} .

Q4. If
$$A = \begin{bmatrix} \cos \alpha & -\sin \alpha \\ \sin \alpha & \cos \alpha \end{bmatrix}$$
, then for what value of α is A an identity matrix?

Q5. If
$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \begin{bmatrix} 3 & 1 \\ 2 & 5 \end{bmatrix} = \begin{bmatrix} 7 & 11 \\ K & 23 \end{bmatrix}$$
, then write value of K.

Q6. Write
$$A^{-1}$$
 for $A = \begin{bmatrix} 2 & 5 \\ 1 & 3 \end{bmatrix}$ using elementary transformations.

Q7. Express the matrix
$$A = \begin{bmatrix} 3 & 2 & 5 \\ 4 & 1 & 3 \\ 0 & 6 & 7 \end{bmatrix}$$
 as the sum of a symmetric and a skew symmetric matrix.

Q8. Find the matrix A such that
$$\begin{bmatrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{bmatrix} A = \begin{bmatrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{bmatrix}$$

CHAPTER – DETERMINENT

- Q1. If |A| = 6 and O(A) = 3 then |2A|.
- O2. If order of a matrix A is 3×3 and |A| = 3; then |A(adj A)|
- Find x if $\begin{bmatrix} 5 & 3x \\ 2y & z \end{bmatrix} = \begin{bmatrix} 5 & 12 \\ 6 & 4 \end{bmatrix}$ Q3.
- Without expanding prove that | 3 |75| = 0Q4. 86
- a + axxSolve the equation |xx + ax| = 0, $a \ne 0$. Q5. |xxx+a|
- Q6. Solve the system of linear equations:-8x + 4y + 3z = 18, 2x + y + z = 5 and x + 2y + z = 5
- **Q**7. A school wants to award its students for the values of honesty, regularity, and hard work with a total cash award of Rs. 6000, three times the award money for hard work added to that given for honesty amounts to Rs. 11000. The award money given for honesty and hard work together is double the one given for regularity. Represent the above situation algebraically and find the award money for each value, using matrix method.

CHAPTER - CONTINUITY AND DIFFERENCIABLITY

- If $x = \sin^{-1}(3t 4t^3)$ and $y = \cos^{-1} \sqrt{(1 t^2)}$ then find $\frac{dy}{dx}$. Q1.
- Find $\frac{dy}{dx}$, if $x = a \{\cos t + \log (\tan t/2)\}$, $y = a\{\sin t\}$. Q2.
- Verify the Rolle's theorem for the function $f(x) = x^2 2x + 1$ in the interval [-1, 2]Q3.

- If find $y = a (\sin \theta \cos \theta)$ and $x = a (\cos \theta + \sin \theta)$, find $\frac{d^2 y}{dx^2}$. Q4.
- Q5. Find the unknown constant if the functions are continuous

$$f(x) = \begin{cases} kx+1, & x \le \pi \\ \cos x, & x > \pi \end{cases}$$

- The function f(x) is defined as follows: $f(x) = \begin{cases} x^2 + ax + b, & 0 \le x < 2 \\ 3x + 2, & 2 \le x \le 4 \\ 2ax + 5b, & 4 < x \le 8 \end{cases}$ Q6.
 - if f is continuous on [0, 8], find the values of a and b.

APPLICATION OF DERIVATIVES Find the slope of tangent to the curve $y = x^2 - 1$ at the point whose abscissa is 3. Q1. O2. Show that f(x) = 3x + 7 is strictly increasing on R. Find the rate of change of the area of a circle with respect to its radius r when r = 4 cm. Q3. Find the point on the curve $y = x^2 - 2x + 3$ where tangent is parallel to x-axis. Q4. Find slope of normal to the curve $y = 2x^2 - 3x$ at x = -1. Q5. Find slop of tangent to the curve $x = t^2 + 3t - 8$, $y = 2t^2 - 2t - 5$ at t = 2. O6. Prove that curve $x = y^2$ and xy = k cut at right angles if $8k^2 = 1$. Q7. Determine the interval where $f(x) = \sin x - \cos x$; $0 \le x \le 2x$ is strictly increasing or Q8. decreasing. **Subject: Physical and Health Education**

- A. Prepare the project file on any one of the following games:-Basketball, Football, Kabaddi, Kho-Kho, Volleyball, Handball, Hockey, Cricket, **Bocce and Unified Basketball**
 - Project has to be written on the basis of following guidelines:-
 - 1. History of the game.
 - 2. Draw the diagram of court/field of related game Specifications of playfield and sports equipments.
 - 3. Latest general rules of the game.
 - 4. Fundamental skills of the game.
 - 5. Terminology.
 - 6. Important tournaments of the game.
- В. Make a video of performing any 5 yoga asanas and explain its steps and benefits.
- C. Write about the Sports Awards. (on same project file)
 - Arjun Award (a)
 - Dronacharya Award (b)
 - Rajiv Gandhi Khel Ratan Award (c)

Subject: Applied Arts

- Make a poster on community and nature development on A3 size sheet 1. (portfolio) using acrylic colours. (3 sheets)
- 2. Make an advertisement of commercial product on A3 size sheet (portfolio) using acrylic colours. (3 sheets)

Subject: Hindustani Music

PROJECT WORK

- Q1. Discuss in detail Raag Malkouns and write in Notation the Compositions of Raag
 - (i) It's Aroha, Avroha
 - (ii) It's Thaat
 - It's Jati (iii)
 - It's Timing (iv)
 - It's Vadi, Samvadi Swar (v)
- Q2. Write in Tala Notation, Thah (Single) and Dugun (Double) of Jhap Tala and Rupak Tala.
- Q3. Describe the various parts of the Tanpura along with its tuning.

