



St. Edmund's School

Play Group to 10+2 [CBSE Affiliated]

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Std.-XII Holiday Home Work Session 2022-23

Subjects	Homework
Political Science (028)	<p>Do these activities in the project file.</p> <p>1. Activity based on the the partition Students you read the novel or a story on partition by an Indian and Pakistani writer what are the commonalities of the experience across the border collect all the stories prepare a wallpaper that highlights the common experience and has stories on the unique experiences You can also watch the movie based on the partition and write the causes and consequences of the partition with the help of case studies also .</p> <p>2. Activity based on Globalisation This activity enables you to understand how globalisation has penetrated our lives and the impact the all inclusive nature of globalisation has on an individual ,community and a. nation as a whole. Students you have to to collect the list the names of products food products white goods and luxuries you are familiar with . you have to write down your favourite TV programs . Find out who are the manufacturers of the products you are using everyday and the makers sponsors of your favourite TV programs Now divide them into three categories exclusive foreign companies exclusive Indian companies and companies working in collaboration . make a short report on it how globalisation has been impacting our life different faces of globalisation as we use more foreign goods are on small scale industries have been losing their customers and are closing down.</p>
Psychology (037)	<p>1 .Prepare a case profile (hard copy as well as presentation) using assessment methods like psychological tests,interviews,case study,report narration. Observe and interview three persons in your neighbourhood in order to check how they differ from each other in terms of psychological attributes. Cover all five domains i.e. intelligence ,personality , aptitude, interest and values. Prepare a psychological profile of each person and compare results. By working in pairs present a well laminated portrait of seven eminent psychologists along with their short biographies on A4 size sheets. The Psychologists are as follows:</p> <ol style="list-style-type: none">1. Sigmund Freud2. Abraham Maslow3. Carl Jung4. Raymond Catell5. Evan.P. Pavlov6. Wilhelm Wundt7. Raven

	2) Prepare a Poster or Collage on the Positive Mental Health and Well being .
Business studies (054)	1. Complete the project work according to CBSE guidelines. 2. Explain any 3 principles of management depicted through caricature/ cartoon image. General instructions: - It's a group activity (3-4 students in one group) - Draw cartoon character either on A4 sheet or in MS word/paint .
Entrepreneurship (066)	- Prepare a dictionary of chapter 1,2 by finding terms and meaning from NCERT. - Complete a project on market survey according to CBSE guidelines .
Biology (044)	1. Write all the important terminologies in your notebook given in Chapter 2(Sexual Reproduction In flowering Plants) and chapter 4 (Reproductive Health) 2. REVISE THE LESSONS (a) Reproductive Health (b) Sexual reproduction in Flowering Plants FOR A TEST WHEN SCHOOL REOPENS 3. Make an Investigatory project of 15-20 pages on anyone topic given below Investigatory projects in class XII Bio 1 Corona 2. Benign tumor 3. Malignant tumor 4. IVF 5. I u i 6 human cloning 7. Human Genome Project 8. AIDS 9. Typhoid 10. ADA 11. Sickle Cell anaemia 12. Down syndrome 13. Malaria 14. Dengue 15 Test tube baby 16. Genetic disorder 17. Transgenic organism 18. Reproductive health 19. Alzheimer disease 20 Breast cancer 21. Cloning 22 hemophilia 23. Biotechnology 24. Unequal distribution of population in India 25. Mutation 26. Biopiracy 27. Pollination in flowers OR 1. Brain tumor

2. Supernumerary parts
3. Ebola virus
4. Possible effect of maternal behaviour on fetal development
5. *Saccharomyces cerevisiae*
6. on immunity of India
7. human embryonic development
8. immunity
9. go smart with organic farming
10. ageing and sleeping
11. infertility
12. Drug addiction
13. malnutrition
14. cancer or oncology
15. AIDS
16. autism
17. malaria
18. diabetes
19. polio
20. heart attack
21. hormones and their roles
22. gene therapy
23. effect of cannabis on the human body
24. DNA fingerprinting
25. anaemia
26. PCR
27. immune system
28. cervical spondylitis
29. seed tolerance for freezing temperature
30. possible effect of maternal behaviour on foetal development
31. effects of diet on blood glucose
32. role of recombinant DNA technology in modern medicine
33. influenza
34. insect diversity in your area
35. (ART) assisted reproductive techniques
36. algal blooms and preventive measures
37. blood clotting
38. IVF treatment
39. cloning
40. twins monozygotic or dizygotic
41. pregnancy problems
42. sleeping habit in person of different age group
43. leukaemia
44. erythroblastosis fetalis
45. cancer

**English Core
(301)**

Project Portfolio/Project Report Topics List with the Tasks

General Instructions:

- *It is compulsory for all to prepare the Project file.*
- *The Project Report is needed to be completed in 1000 words in your own handwriting.*
- *Use A4 size paper sheets for project.*

Project-Portfolio/ Project Report

The Project-Portfolios is a compilation of the work that the students produce during the process of working on their ALS Project. The Project-Portfolio may include the

following:

PROJECT FILE

Page 1 : COVER PAGE, WITH TITLE OF PROJECT, SCHOOL DETAILS/DETAILS OF STUDENT.

Page 2 : STATEMENT OF PURPOSE/OBJECTIVES/GOALS

Page 3 : CERTIFICATE OF COMPLETION UNDER THE GUIDANCE OF THE TEACHER.

Page 4 : ACTION PLAN FOR THE COMPLETION OF ASSIGNED TASKS.

Mid Pages : PROJECT/REPORT DETAILS(Graphics and pictures to be pasted on left hand side and content of the report to be written in your own handwriting on the right hand side of the page.

Last Page : LIST OF RESOURCES/BIBLIOGRAPHY

PROJECT TOPICS

You have to make pictorial as well as graphical presentation on left hand side of the file. All data should be collected authentically and hand written essay of 1000 words on right side. (Take any one topic)

TOPIC 1 - The Last Lesson

- Elaborate the theme of Linguistic Chauvinism and Procrastination and importance of Time Management.
- Collect data about countries where people have these tendencies.
- How do they give importance to their mother tongue? **TOPIC 2 - *The Lost Spring***
- Collect data about various slums in our country and living conditions there. Also elaborate whether children have access of education there.
- How children are engaged in various kinds of work(Below 14)?
- Collect all information about biggest slums.

TOPIC 3 My Mother At Sixty-six

- Explain the importance of parents in the family.
- On the context of the poem how do you love and care your mother?
- Collect data about condition of old age homes in our country, living condition there, number of old age homes.

TOPIC 4 - The Third Level

- Why 'hurry and worry' are trademarks of modern men?
- How far today life is insecure? Why do modern men want to escape?
- Interview your school principal or the counselor to know the problems (stress, fear, anxiety etc.) faced by the students in the virtual platform.

<p>Physics (048)</p>	<p>Q. 1. (i) Derive an expression for electric field E due to a dipole of length '2a' at a distant point 'r' from the center of the dipole on an axial line. (ii) Draw a graph of E versus r for $r \gg a$ (iii) If this dipole were kept in a uniform external electric field E_0, diagrammatically represent the position of the dipole in stable and unstable equilibrium and write the expressions for the torque acting on the dipole in both the cases.</p> <p>Q. 2. (i) Use Gauss' law to derive the expression for the electric field (E) due to a straight uniformly charged infinite line of charge density λ C/m. (ii) Draw a graph to show the variation of E with perpendicular distance r from line of charge. (iii) Find the work done in bringing a charge q from perpendicular distance r_1 to r_2 ($r_2 > r_1$).</p> <p>Q. 3. (i) Explain, using suitable diagrams, the difference in the behaviour of (a) conductor and (b) dielectric in the presence of an external electric field. Define the terms polarization of a dielectric and write its relation with susceptibility. (ii) A thin metallic spherical shell of radius R carries a charge Q on its surface. A point charge $Q/2$ is placed at its centre C and another charge $+2Q$ is placed outside the shell at a distance x from the centre. Find (a) the force on the charge at the centre of shell and at the point A, (b) the electric flux through the shell.</p>
<p>Chemistry (043)</p>	<p>Prepare an investigatory project report on any one topic including the following points: 1. Introduction to the topic 2. Research and Analysis 3. Theory 4. Chemical reaction 5. Data collection 6. Conclusion</p>
<p>Physical Education (048)</p>	<p>Practical-1: Fitness tests administration. A. Barrow three item test B. Cardiovascular fitness test(Harvard Step Test, Rock port 1 mile test) Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease (Diabetes Asthma Hypertension Obesity) Practical-3: Labelled diagram of Field & Equipment of Basketball/Volleyball. Also mention its Rules, Terminologies & Skills.</p>
<p>Hindustani Music (034)</p>	<p>1 .Make a chart on any musical instrument and dance Forms 2 .Make the chart On Time theory of Music. 3 .Practical file (a) Describe the ragas and Bandishand Explain all these three Ragas Bhairavi, Bageshree,Malkauns also (b) Write the biography of Bade Ghulam Ali Khan, Krishna Rao Shankar Pandit (c) Write the Talas with dugun n Chaugun Jhaptala Rupak Dhamar</p>

(d) Draw the picture of Tanpura and explain this in brief .

1. Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be given by $f(x) = \tan x$. Then $f^{-1}(1)$ is
 - (a) $\frac{\pi}{4}$
 - (b) $\left\{n\pi + \frac{\pi}{4} : n \in \mathbb{Z}\right\}$
 - (c) Does not exist
 - (d) None of these
2. Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Then, pre-images of 17 and -3, respectively, are
 - (a) $\emptyset, \{4, -4\}$
 - (b) $\{3, -3\}, \emptyset$
 - (c) $\{4, -4\}, \emptyset$
 - (d) $\{4, -4\}, \{2, -2\}$
3. Let $f : [2, \infty) \rightarrow \mathbb{R}$ be the function defined by $f(x) = x^2 - 4x + 5$. Then the range of f is
 - (a) \mathbb{R}
 - (b) $[1, \infty)$
 - (c) $[4, \infty)$
 - (d) $[5, \infty)$
4. Let the R be a relation in the set N of all natural numbers
Given by
$$R = \{(a, b) : a = b - 2, b > 6\}$$

Then, choose the correct answer:
 - (a) $(6, 8) \in R$
 - (b) $(2, 4) \in R$
 - (c) $(3, 8) \in R$
 - (d) $(8, 7) \in R$
5. Let $A = \{a, b, c, d\}$. Then a relation $R = \{(a, b), (b, a), (a, a)\}$
On A is
 - (a) symmetric only
 - (b) Transitive only
 - (c) Symmetric and transitive only
 - (d) Reflexive and transitive only
6. Let R be a relation on $A = \{a, b, c\}$ such that
$$R = \{(a, a), (b, b), (c, c), (a, b)\}$$
. Then R is
 - (a) Identity relation
 - (b) Reflexive
 - (c) Symmetric
 - (d) Anti-symmetric

**Mathematics
(041)**

7. Let R be the relation in the set $\{1,2,3,4\}$ given by
 $R = \{(1,2), (2,2), (1,1), (4,4), (1,3), (3,3), (3,2)\}$. Then

- (a) R is reflexive and symmetric but not transitive
- (b) R is reflexive and transitive but not symmetric
- (c) R is symmetric and transitive but not reflexive
- (d) R is an equivalence relation

8. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^8$. Then

- (a) f is one –one onto
- (b) f is one –one but not onto
- (c) f is one –one into
- (d) f is neither one-one nor onto

9. Let $f: \mathbb{N} \rightarrow \mathbb{N}$ given by $f(1) = f(2) = 1$ and $f(x) = x - 1$ for $x > 2$. Then

- (a) f is not one –one but onto
- (b) f is one –one and onto
- (c) f is neither one –one nor onto
- (d) f is many one but not onto

10. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 3x$. Then

- (a) f is one-one onto
- (b) f is many one onto
- (c) f is one –one but not onto
- (d) f is neither one-one nor onto

11. The value of $\sin^{-1}\left(\cos\frac{\pi}{9}\right)$ is

- (a) $\frac{\pi}{9}$
- (b) $\frac{5\pi}{9}$
- (c) $\frac{-5\pi}{9}$
- (d) $\frac{7\pi}{18}$

12. The value of $\cot(\sin^{-1}x)$ is

- (a) $\sqrt{\frac{1+x^2}{x}}$
- (b) $\frac{x}{\sqrt{1+x^2}}$
- (c) $\frac{1}{x}$
- (d) $\frac{\sqrt{1-x^2}}{x}$

13. The domain of $\sin^{-1}2x$ is

- (a) $[0,1]$
- (b) $[-1,1]$
- (c) $\left[-\frac{1}{2}, \frac{1}{2}\right]$
- (d) $[-2,2]$

14. If $3\tan^{-1}x + \cot^{-1}x = \pi$, then x equal to

- (a) 0
- (b) 1
- (c) -1
- (d) $\frac{1}{2}$

15. The value of $\cos^{-1}\left(-\frac{1}{2}\right) + \sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$ is

- (a) $\frac{\pi}{3}$ (c) $\frac{2\pi}{3}$
(b) 0 (d) $\frac{\pi}{6}$

16. The value of $\cot^{-1} 3 + \cot^{-1} 2$ is

- (a) $\frac{\pi}{3}$ (c) $\frac{\pi}{4}$
(b) $\frac{\pi}{2}$ (d) $\frac{\pi}{6}$

17. The value of $\tan^{-1}\left(\frac{1}{3}\right) + \tan^{-1}\left(\frac{1}{5}\right) + \tan^{-1}\left(\frac{1}{7}\right) + \tan^{-1}\left(\frac{1}{8}\right)$ is

Equal

- (a) π (c) $\frac{3\pi}{4}$
(b) $\frac{\pi}{4}$ (d) $\frac{\pi}{6}$

18. Considering principal values, the number of solutions of $\tan^{-1} 2x + \tan^{-1} 3x = \frac{\pi}{4}$

- (a) 2 (c) 1
(b) 3 (d) 4

19. if $4 \cos^{-1} x + \sin^{-1} x = \pi$, then the value of x is

- (a) $\frac{3}{2}$ (c) $\frac{2}{\sqrt{3}}$
(b) $\frac{1}{\sqrt{2}}$ (d) $\frac{\sqrt{3}}{2}$

20. If $\tan^{-1}(\cot \theta) = 2\theta$, then θ is equal to

- (a) $\frac{\pi}{3}$ (c) $\frac{\pi}{4}$
(b) $\frac{\pi}{6}$ (d) $-\frac{\pi}{3}$

21. Project on history of Mathematicians: It may include history of Indian mathematicians such as Aryabhata, Brahmgupta, Varahamihir, Sridhara, Bhaskaracharya, Ramanujan etc., and history of foreign mathematicians such as Cantor, Pythagoras, Thales, Euclid, Appollonius, Descartes, Fermat, Leibnitz, Euler, Fibonacci, Gauss, Newton, etc.

**Computer
Science (083)**

1. Write a python program to convert temperature in degree Celsius to Fahrenheit.
 $T(^{\circ}F) = T(^{\circ}C) * 9/5 + 32$
2. WAP to calculate the simple interest.
3. WAP to enter 2 integers and perform all arithmetic operation on them.
4. WAP to find average of 3 numbers.
5. WAP to check whether the number is positive, negative or 0.
6. WAP to check whether the number is even or odd.
7. WAP to display the appropriate message as per the colour of signal at the road crossing.
8. WAP to create a simple calculator performing only 4 basic operations.
9. WAP to print even numbers in a given sequence using for loop.
10. WAP to print the table of any number.
11. WAP to print the pattern for a number input by the user.

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

12. WAP to print the factorial of a given number.
13. WAP using a user-defined function that displays sum of first n natural numbers, where n is passed as an argument.
14. WAP using a user-defined function that accepts the first name and last name as arguments, concatenate them to get fullname and display the output.
15. WAP using a user-defined function that calculate the area and perimeter of rectangle.
16. WAP using a user-defined function that count the number of times a character (passed as argument) occurs in the given string.
17. WAP to input a string from the user and print it in reverse order.
18. WAP to check whether the string is palindrome or not. (A string is called palindrome if it reads same backwards as forward. For eg. MADAM, KANAK)
19. WAP that takes sentence as an input parameter where each word in the sentence is separated by a space. The function should replace each blank with a '*' and then return modified sentence
20. WAP to print the following series
 - 0,1,1,2,3,5,8,13 _____ n.
 - 0,4,9,16,25 _____ n.
 - 3,6,9,12,15,18 _____ n.

(WAP MEANS WRITE A PROGRAM)

Students of Class XII are requested to submit a Research based Project on any one **Contemporary Social Issue.**

You may choose any of the following topics:

1. Euthanasia
2. Sex- Education
3. Child Labor
4. Role of Religion in Indian Society
5. Problems of Differently-Abled
6. Caste based Reservation in India
7. Impact of Bollywood among Youth
8. Adoption
9. Role of Communication Media in Social life
10. Peer Pressure
11. Urbanisation
12. Rising Divorce rate in India
13. Domestic Violence
14. Begging- A thriving Occupation
15. Dowry

Instructions-

- (a) Conduct interviews, Surveys and then pen down your observation.
- (b) With the help of your presentation prepare a beautifully decorated project file. (This should be hand written. Typed or printed sheets will not be considered)
- (c) Project file should be made in the given sequence-
 1. Cover page with Title
 2. Acknowledgement
 3. Certificate

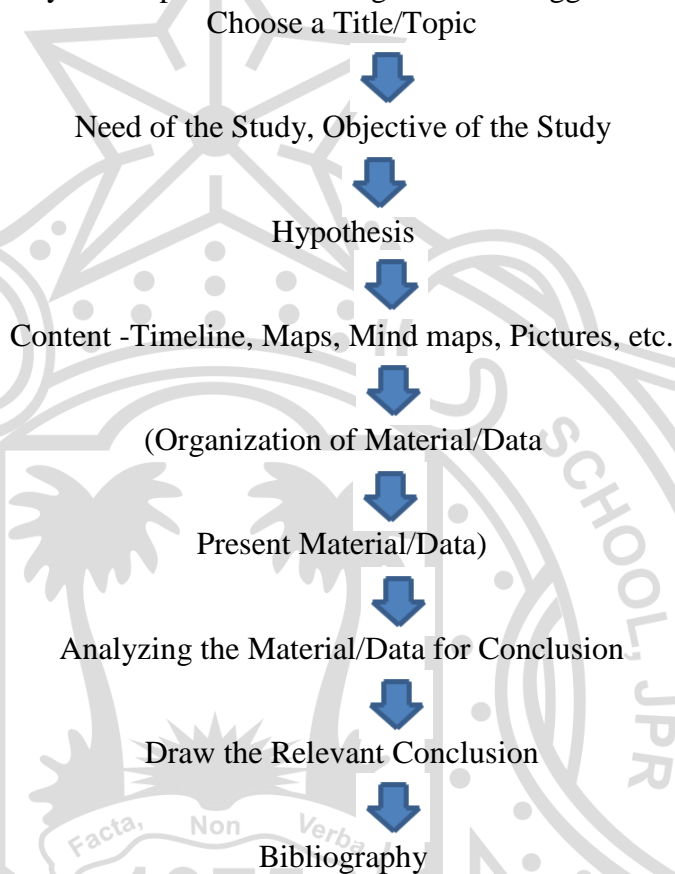
**Sociology
(039)**

	<p>4. Index</p> <p>5. Research Question</p> <p>6. Introduction of the topic- 10- 15 pages</p> <p>7. Rationale of study</p> <p>- Why did you choose the topic?</p> <p>- Objectives of your study</p> <p>8. Review of Literature: it should be in the following sequence:</p> <ul style="list-style-type: none"> - Title of the Article/Book - Year of Publication - Name of the Author - Introduction (a small summary of the article/book) - Objectives of the article/book- Main argument of the Author - Results and finding- Conclusion of the Article - Analysis- Your understanding of the Article <p>9. Methodology- How will you conduct your research:</p> <ul style="list-style-type: none"> - Interview - Case study - Sample Survey <p>10. Questionnaire- The questionnaire should have 15 questions. It can include”</p> <ul style="list-style-type: none"> - Open-ended questions - Close-ended Questions <p>11. Observation and Data Analysis</p> <ul style="list-style-type: none"> - Interpret any ALL Questions either through a Pie-Chart or a Bar-Diagram <p>12. Conclusion-</p> <ul style="list-style-type: none"> - It should include the inferences you draw from your research. <p>13. Bibliography</p> <ul style="list-style-type: none"> - Mention all the sources you have collected the data of your research
<p>History (027)</p>	<p>Students please select any one topic from given list for making project on interleaf sheets and be ready for presentation on that topic.</p> <ol style="list-style-type: none"> 01 The Indus Valley Civilization-Archeological Excavations and New Perspectives 02 The History and Legacy of Mauryan Empire 03 “Mahabharat”- The Great Epic of India 04 The History and Culture of the Vedic period 05 Buddha Charita 06 A Comprehensive History of Jainism 07 Bhakti Movement- Multiple interpretations and commentaries. 08 “The Mystical Dimensions of Sufism 09 Global legacy of Gandhian ideas 10 The Architectural Culture of the Vijayanagar Empire 11 Life of women in the Mughal rural society 12 Comparative Analysis of the Land Revenue Systems introduced by the Britishers in India

- 13 The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity
- 14 The Philosophy of Guru Nanak Dev
- 15 The Vision of Kabir
- 16 An insight into the Indian Constitution

Steps involved in the conduct of the project:

Students may work upon the following lines as a suggested flow chart:



Painting (049)	<p>1-Still-Life (A2 size sheets)-students need to prepare four still life. (Three object with two drapery) Medium-</p> <ul style="list-style-type: none"> (a) Hatching (b)-Watercolor (c) charcoal <p>2-Composition –(A2 size sheets)</p> <ul style="list-style-type: none"> (a)-Nature-Animal,Bird,flowers Tree, Fruits, vegetables landscape (b)-Fantasy, Daily life, Mythology <p>3-Sketch Book – 20 sketches of human figures, yoga day</p>
Accountancy (055)	<p>Q1-Create a “Comic Script” OR “Animated Movie” on lesson: Goodwill-Nature & Valuation</p> <p>General Instuctions:</p> <ul style="list-style-type: none"> a. Its a group activity.(4-6 students in one group) b. Use your own storyline to create a comic script c .Mode Of Submission- Prepare a PowerPoint presentation with 8-10 slides. Mention following things in the first slide: Session-2022-23,Accountancy Project, Topic, Name, Class & Section <p>Q2-Create Your Own Question Bank</p>

	<p>General Instructions:</p> <ol style="list-style-type: none"> Its an individual activity 20 Objective type Questions and 02 Case Study based questions From lesson- Accounting for Partnership Firms- Fundamentals
<p>Economics (030)</p>	<ol style="list-style-type: none"> Prepare crossword puzzle of the terms from the chapter Money and Banking and Government Budget. Complete the project work according to the CBSE guidelines. For guidelines of the project refer the following link:- https://1drv.ms/p/s!AgtW148ZQRwrgWtdQawcJ_18phS2 Complete the worksheet of Money and Banking and Government Budget shared on Google Classroom. Collect the newspaper cutting related to foreign exchange and balance of payment. Revise the chapters completed in the class.

