KIIT World School

I am a Promise, I am a Possibility

SUMMER
HOLIDAYS' HOMEWORK

Hope your summer is filled with **reading**, **writing**, and most of all...**fun**!

Class XII

KIIT World School
I am a Promise, I am a Possibility

Never STOP learning!

Dear Parents,

In summer's golden embrace, behold the holidays' allure,
When sun-kissed days dance freely, hearts find joy secure.
From bustling cities to serene shores, a world ablaze with glee,
Summer holidays arrive, unlocking souls and setting spirits free.

Summer vacations are a great time for the children to take a break from school and explore new interests and activities. So, let's pursue some interests and engage them in meaningful activities that can help them grow and develop.

- Summer vacations offer an excellent opportunity to pursue hobbies and master vital life skills like cooking, cleaning, and gardening, which not only aid in personal growth but also instil self-confidence and a lifelong love of learning.
- Help your child to be an early bird. Waking up early has two benefits. First you can stay productive and secondly you can do more activities that are stimulating and fun.
- Teach your child not to waste food. Acquaint with the hard work put in by the mothers and farmers.
- Expand your child's horizons and make him/her learn a new language while enjoying the holidays.
- Give wings to your child's imagination by the joy of reading, by visiting local libraries or bookstores, engaging math lessons with cooking, grocery shopping, and discovering the fascinating world of numbers.
- As a society, we are more connected and yet also less connected than ever before. So, in order to abridge this gap, share the values and culture of the extended family system by sharing interesting talks and anecdotes related to the same.
- Spend time outdoors with your child as it is the perfect time to engage in outdoor activities.
- Make travel plans with children to unveil captivating cultures, rich history, and breath-taking landscapes, as museums, historical sites, and national parks become their gateway to knowledge and adventure.
- Embrace the summer break with joyous bonding through board games, movie nights, culinary adventures, and making your children lend a hand in the household, forging cherished connections that last a lifetime.
- Carve out family time at the end of the day. Share stories with your children and impart some valuable life lessons and morals.

Last but not least, laugh together and strengthen your bond.

The last day for submission of holidays' homework is June 27, 2023, from 8:00am to 1:00pm

Holidays' Homework

Class XII
Holidays Homework 2023 - 24
Plagiarism is strictly prohibited

HUMANITIES STREAM

ENGLISH

As mandated by CBSE, the students have to prepare the following activities and a project for the internal assessment.

1. **Art Integration Activities**
   Theme - National Integration

You have to prepare and submit two activities where you integrate art with your subject (any topic/chapter/concept). Under the 'Ek Bharat Shreshtha Bharat' initiative of CBSE, Delhi has been paired with Lakshadweep and Andaman & Nicobar Islands. You should integrate your topic with the partner union territories.
You can choose any two of the following activities and prepare your presentations:-
   1. Posters
   2. Brochures
   3. Scrapbooks
   4. Collages
   5. Storyboards
   6. Caricatures
   7. Doodle art
   8. Painting/ Drawing

2. Project Work
WORD LIMIT - 800 to1000 words
Theme – War and Peace

Topics Covered: -
   1. The Last Lesson
   2. Lost Spring
   3. Deep Water
   4. Keeping Quiet
   5. Indigo
   6. The Enemy
   7. The Third Level

Date of Submission: June 30, 2023

INSTRUCTIONS

1. The project report must include the following:
   a) Cover Page
   b) Dedication
   c) Acknowledgement
   d) Certificate
   e) Index

f) Aim/Objective
g) Material/Resources required
h) Hypothesis
i) Methodology/Procedure
j) Observations
k) Inferences
l) Conclusion
m) Application
n) Future Scope
o) Log table
p) References/ Bibliography

2. Any type of A4 size sheets can be used to prepare the project.

3. Relevant pictures, graphical representation and questionnaires must be a part of the project.
4. The Project must have a log table recording your weekly progress.
5. The project must be hand-written in a beautiful and cursive handwriting. You must take care of the aesthetics and presentation of the project keeping in mind the margins and proper spacing/indentation.
6. The project can be spiral-bound or filed neatly in a folder.

Link to Sample Projects

https://drive.google.com/file/d/1c2nTqh9dkWD4ZXocaBlHAgZ4v9mjpCO3/view?usp=sharing

https://drive.google.com/file/d/1-tnk0EfX8psHeFcbyEtGnYRZ_gFSJLoi/view?usp=sharing

https://drive.google.com/file/d/1iJ7L4IigAa_Quk41X5HrRFDFIYdnU-XG/view?usp=sharing

POL SCIENCE

A. Political Science Project- Prepare a project according to CBSE guidelines.
Suggested Topics
1. Partition- Theory behind it and its legacy
2. State Reorganisation– Do we still require it?
3. Election Commission- its changing role and importance
4. One Party Dominance-Congress to BJP post 2014 (depending upon the election results)
5. Change in India's Foreign Policy
6.. India's relation with its neighbours- any one country can be studied
7. Emergency- Reasons and Consequences-
8. Regional Aspiration – Separatist Movement- Kashmir
9. Role of Regional Parties- A detailed study of any one
10. Naxalite Movement- How can government address the problem
11. Politics of Reservation in India- Constitution- SC and ST, Mandal- OBC, NDA- EWS
12. Coalition Politics- Study of UPA and NDA
13. China – The next Super Power
14. Post Soviet Republics- Life after Disintegration
15. EU- Brexit
16. UN and its agencies –
17. Environment- Sustainable development- Need of the hour
18. Globalisation – Eco., Pol., and Cultural Impact on Third World

General Instructions:
1. Project can be individual..
2. It should be a handwritten project on a A4 size sheet.
3. Project should be summed up in 10-20 pages.
4. It should be well researched based on facts and figures and pictorial.
5. The project must have a Table of contents, Title/ Cover page, Acknowledgement, Bibliography, Analysis with headings and sub-headings.
6. It must include relevant news clippings, facts and figures, pictures.

B.Quick Review Assignment

1. List any two characteristics of the Soviet Union.

2. Why is it said that the collapse of the Berlin Wall signified the collapse of the bipolar world?

3. List any two consequences of 'Shock Therapy'.

4. Explain any two reasons for the disintegration of the USSR

5. In what three ways did the collapse of the Soviet Union affect world politics? Explain.

6. Describe the role of Gorbachev to reform the Soviet system and the effects of these reforms on the USSR.

7. If the Soviet Union had not disintegrated and the world had remained bipolar, how would that situation have affected world politics?

8. 'Although India has maintained good relations with all the post-communist countries, yet the strongest relations are still between India and Russia?' Explain the statement with any three suitable arguments.

9. Write shote note on EU, SAARC, BRICS, ASEAN

10. India - China relationships, India - Russia relationship , India- Pakistan relationship Elaborate

C: Prepare a complete report on INDIA'S PRESIDENCY OVER G20- 202

MATHEMATICS

TASK 1
For Even roll no.
Project 1 : To explore the principal value of the function sin–1x using a unit circle.
Procedure:
1.Take a cardboard of a convenient size and paste a white chart paper on it.
2. Draw a unit circle with centre O on it.
3. Through the centre of the circle, draw two perpendicular lines X′OX and
   YOY′ representing x-axis and y-axis, respectively as shown in Fig. 6.1.
4. Mark the points A, C, B and D, where the circle cuts the x-axis and y-axis,
   respectively as shown in Fig. 6.1.
5. Fix two rails on opposite sides of the cardboard which are parallel to
   y-axis. Fix one steel wire between the rails such that the wire can be moved parallel to x-axis
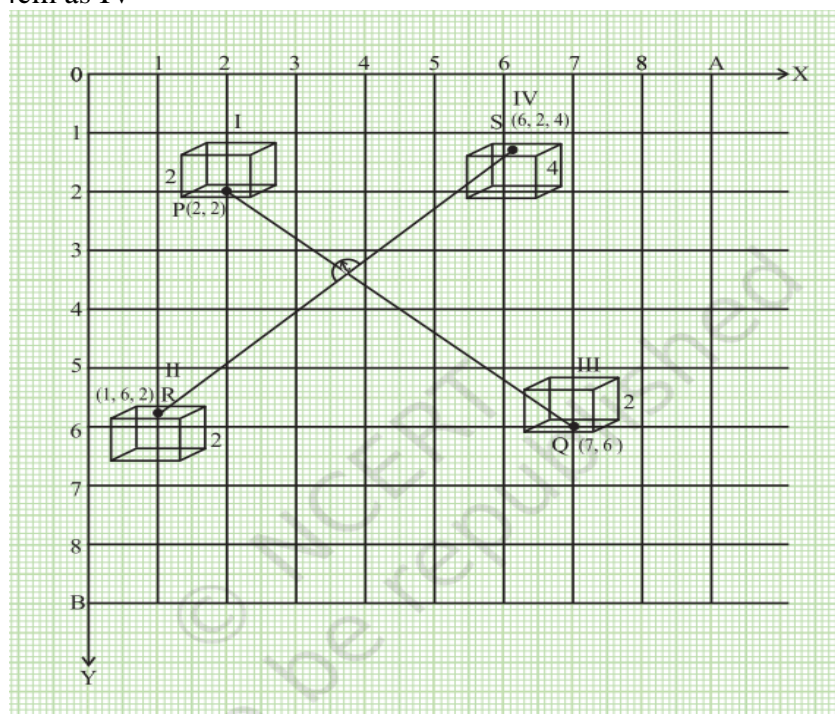
as shown in Fig. 6.2.
6. Take a needle of unit length. Fix one end of it at the centre of the circle and the other end to move freely along the circle.

For odd roll no.

Project 2: To measure the shortest distance between two skew lines and verify it analytically

Procedure:

1. Paste a squared paper on a piece of plywood.
2. On the squared paper, draw two lines OA and OB to represent x-axis, and y-axis, respectively.
3. Name the three blocks of size 2 cm × 2 cm × 2 cm as I, II and III. Name the other wooden block of
   size 2 cm × 2 cm × 4 cm as IV.
4. Place blocks I, II, III such that their base centres are at the points (2, 2), (1, 6) and (7, 6), respectively, and block IV with its base centre at (6, 2). Other wooden block of size 2 cm × 2 cm ×
   4cm as IV

5. Place a wire joining the points P and Q, the centres of the bases of the blocks I and III and another wire joining the centres R and S of the tops of blocks II and IV as shown in Fig. 26.
6. These two wires represent two skew lines.
7. Take a wire and join it perpendicularly with the skew lines and measure the
   actual distance.

TASK 2
Lab manual activity:

1. To demonstrate a function which is not one-one but is onto.
2. To demonstrate a function which is one-one but not onto.
3. To draw the graph of $1 \sin x -$, using the graph of sin x and demonstrate the concept of mirror reflection (about the line y = x).

TASK 3

Group Activity:
- Relate your topic to Delhi and Andaman and Nikobar (ex. Package, map, whether,flight tickets)
- Minimum 10 to 15 slides, must include cover page, subject, Index, history, formulae, case study, real life applications ,Biblography

PPT: QC1 (Probability)

QC2 (3 dimensional geometry)

QC 3(Continuity and differentiability)

QC 4(Applications of Derivatives)

QC 5(Applications of integral)

QC6 (linear programming)

Note: Revise Ch. 2,3,4, 5 and 6 PA-2 examination

Utilise your best time to accomplish your task on time at the same time enjoy also.

IP

Practical Questions

Create a word document and copy the code in word from IDLE and attach screenshot of the output for the below programs. Upload the word document in google classroom.

1.   Write a python code to plot a line graph of past pass percentage of four years of two different schools.

2.   Write a python code to draw the double bar graph for data given below using matplotlib [1,3,6,7,9],[5,2,7,8,2] & [2,4,6,8,10],[8,6,2,5,6].

The graph should have appropriate titles, labels and legends.

3.   Write a python code to display a bar chart of the popularity of programming languages.

Sample data:

Lanuages:["Python","Java","PHP","Javascript"]

Popularity:[8.6,8,7.8,6.4]

The width of the bars should be 0.5 and bar colour should be black.

4.   Write a python code to display a horizontal bar chart of the popularity of programming languages.Sample data:

Lanuages:["Python","Java","PHP","Javascript"]

Popularity:[8.6,8,7.8,6.4]

The width of the bars should be [0.5,0.7,0.4,0.7] and bar colour should be ["blue","black","yellow","orange"].

5.   The following are the runs scored by a team in the first 10 overs :

Overs=[1,2,3,4,5,6,7,8,9,10]

Runs=[6,0,25,10,20,15,6,18,12]

Draw the line graph for the above data using matplotlib giving the linestyle as dashed and line color as green.

6.   A survey gathered the ages of population of 20 people as below :

Population_ages=[22,55,62,42,21,22,34,42,4,99,75,12,13,11,65,54,44,43,42,48]

Write a program to plot the histogram with the above data with 10 bins.

7. Write a program to generate a series of 10 numbers with a scalar value of 44.

8. Create the following DataFrame Sales(using list of dictionary) containing year wise sales figures for five salespersons in INR. Use the years as column labels, and salesperson names as row labels.

9. Consider above dataframe and write code to do the following:

   a.) Display the last two rows of Sales.

      b.) Display the last two columns of sales

10. Consider above dataframe and write code do the following:

       a)Change the dataframe sales such that it becomes its transpose.

   b) Display the sales made by all sales persons in the year 2018.

11. Consider the following Class 12.csv file containing the data as given below:

a) Read the csv file into a dataframe df .

b) Write the code to find the total marks(Total_marks) for each student and add it tothe newly-created dataframe.

c) Also calculate the percentage obtained by each student under a new column "Average"in the dataframe

d) Write the newly create data frame into a csv file.

12.Create the dataframe df(using dictionary of lists) as shown below:

Write statements to do the following:

a)Display rows 2 to 4 (both inclusive)

b)From rows 2 to 4 (both inclusive), display columns "Item type" and "Total profit".

c)From rows 2 to 4 (both inclusive), display first four columns.

13.Create the series object ob1,ob2 and ob3 given below:

a) Write code to add the series ob1 with ob2.

b) Write code to subtract the series ob1 from ob3.

14. Consider the csv file given below:

Write a program to read from a csv file employee.csv and create a dataframe from it but dataframe should not use file's column header rather should use own column numbers as 0,1 2 and so on.

15. Consider the dataframe dtf5 given below:

Write a program to create the above dataframe (using dictionary of lists) and print the population and schools column for all rows.

16.Consider the dataframe dtf5 given above :

a)Retrieve the first two rows and all column values

b)Retrieve the last three rows and all column values

17. Create the given dataframe aid (using 2D lists) that stores the aid by NGO's for different states:

Write a program to display the aid for:

a)Books and uniform only

b)Shoes only

18.Write a program to create a Series object using a dictionary that stores the number of students in each section of class 12 in your school.

19.Write a program to sort the values of a series object s1 in ascending order of its values and store it into series object s2.

20. Create the following dataframe saledf(using series):

Write a program to do the following:

a)Add a column namely orders having values 6000,6700,6200,6000 respectively for the zones A,B,C and D.

b)Add a new row for a new zone zone. Add dummy values in this row.

21.Create a student table with the student id, name,age,gender and marks as attributes where the student id is the primary key.

22. Insert the details of a new student in the above table.

23. Delete the details of a student with marks less than 50 in the above table.

24. Use the select command to get the details of the students with marks more than 80.

25. Find the min, max, sum, and average of the marks in a student marks table.

26. Write a SQL query to order the marks column of the table in descending order of the marks.

27. Write a query to display cube of 5.

28. Write a query to display the number 563.854741 rounded off to one decimal place.

29. Write a query to display "put" from the word "Computer".

30. Write a query to display today's date .(yyyy-mm-dd format)

31. Write a query to display 'DIA' from the word "MEDIA".

32.Write a query to display the first two and last two characters from the string "India".

33.Write a query to display the position of "NAME" in the string field "FACULTYNAME".

34.Create the given TEACHER table and write SQL queries for the following :

EMPNO	FNAME	LNAME	SUBJECT	QUALIFICATION	Salary	POST
101	Sandeep	Verma	SST	B.ed	35000	TGT
102	Sonia	Kumari	Computer	BCA	42000	TGT
103	Nirmal	Sharma	Hindi	M.ed	45000	PGT
104	Sanjeev	Shastri	English	B.ed	35000	TGT
105	Rakesh	Sharma	Mathematics	M.ed	48000	PGT

a)To join First name and Last name of the teachers with some space in between.

b)To display contents of "Qualification" field in small letters.

c)To display first 3 characters of the "Subject" field.

d)To display the total length of the Qualification column.

e) To display the name of teachers along with their salary sorted by salary in descending order.

f) To display the count of teachers post wise.

g) To display the count of teachers qualification wise.

h)To display the total number of teachers.

i)To display the highest and the lowest salary offered to teachers.

Project Work

The aim of the class project is to create tangible and useful IT application. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about the functioning of the organization, and how data are generated, stored, and managed.

The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize.

Learners can use Python libraries of their choice to develop software for their school or any other social good.

Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take necessary measures for this. Any resources (data, image etc.) used in the project must be suitably referenced.

The project can be done individually or in groups of 2 to 3 students. The project should be started by students at least 6 months before the submission deadline.

Create a table G20 in SQL with the following attributes countryname, economicbenefits, socialbenefits, politicalbenefits, strength, weakness, opportunities and threats. Insert minimum 5 rows.

PSYCHOLOGY

As per CBSE CURRICULUM 2023-24
PRACTICAL FILE- Students are required to administer and interpret five psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality, etc.
Here is the list of 5 practicals which should be there in the psychology practical file.
1.Raven's Standard Progressive Matrices
2. Maudsley's personality Inventory
3.Adjustment inventory for school students
4.Sinha's comprehensive anxiety test
5.Self-Concept Questionnaire
PSYCHOLOGICAL TESTS IN LINK-
https://drive.google.com/drive/folders/1TpAMpfRfjGehKr_jgGetY0ItJNuBYnlo?usp=sharing
ORDER OF PRACTICAL FILE-
1. Aim
2. Basic Concept
3. Reliability
4. Validity
5. Preliminaries (Name, age, gender, class, time, place of conduction)
6. Material Required
7. Rapport Formation
8. Instructions
9. Administration
10. Introspective Report
11. Scoring
12. Interpretation

13. Observation
14. Conclusion
15. References

MATERIALS REQUIRED-
A4 size sheets (One side plain one side ruled)
Practical file's cover should be white color with a creative cover page.

Kindly note the following points for the practical file.
1. All questionnaires to be pasted except for raven's
2. Scoring key and norm table should be pasted in the practical file.
3. Interpretation, conclusion and reference to be completed for each practical.
4. File should be covered with white paper.
5. All 5 practicals should be completed
6. Practical file should look neat.

ECONOMICS

PROJECT WORK
 Project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written
it will be an independent, self-directed piece of study
Scope of the project:
Learners may work upon the following lines as a suggested flow chart:
Choose a title/topic
Collection of the research material/data
 Organization of material/data Present material/data
Analysing the material/data for conclusion
Draw the relevant conclusion Presentation of the Project Work

Class XII	
• Micro and Small Scale Industries	• Food Supply Channel in India
• Contemporary Employment situation in India	• Disinvestment policy of the government
• Goods and Services Tax Act and its 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 & 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
• Sarva Shiksha Abhiyan – Cost Ratio Benefits	• Golden Quadrilateral- Cost ratio benefit
• Minimum Support Prices	• Relation between Stock Price Index and Economic Health of a 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 crisis
• 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 Nature
• *Aatmanirbhar* Bharat	• e-Rupee (e- ₹)
• Sri Lanka's Economic Crisis	• Sustainable Development Goals (SDG's)
• Environmental Crisis	• Comparative Study of Economies (Maximum three economies)
• New Education Policy (NEP) 2020: A Promise for a New Education System	• G-20: Inclusive and Action Oriented
• Amrit Kaal: Empowered and Inclusive Economy	• Cashless Economy
• Any other newspaper article and its evaluation on basis of economic principles	• **Any other topic**