

HOLIDAYS' HOME WORK, JUNE 2024

CLASS – XII

ENGLISH

1. Five unseen passages for comprehension. (pdf sent in class group)
2. Make a project on child labour for girls (based on chapter lost spring of flamingo)

GEOGRAPHY

1. Complete your practical files.
2. Revise the syllabus done in class thoroughly.
3. Practice map of India according to your syllabus.

POLITICAL SCIENCE

- 1) Complete your notes .
- 2) Revise syllabus done in class.
- 3) To prepare project file.

HISTORY

- 1) Complete your notes
- 2) Revise syllabus done
- 3) Practice map work of chapters done in class
- 4) To prepare project file

ECONOMICS

1. **Project Work** :- Students you are expected to use your own thought process based on the understanding of the concepts studied. You are supposed to prepare a project on any one of the following topics :-
Money // Banking // Government Budget // Features, problems & policies of Agriculture // New Economic Policy // Human Capital Formation // Rural Development
 2. Practice numericals from Unit-Determination of income and employment.
- **Note :- Learn all the chapters thoroughly . Be prepared for a short revision test from any of the chapters covered.**

ACCOUNTANCY

1. Students have to prepare one “ One Comprehensive Project” & “One Specific Project” on
 - Analysis of Accounting data (2023-2024) using tools:-
 - Comparative statements
 - Common-size statements
 - Cash flow statement
 - Ratio analysis
 - The project should be handwritten.
 - Each step of solution needs to be highlighted.
 - Project should be atleast 40-45 pages.
 - Originality and Quality of work should be there.
2. Solve practical problems of Chapters done in class.

BUSINESS STUDIES

1. Complete your project file in this summer vacations. You have to make project file report on the following topics:

❖ Project One- PRINCIPLES OF MANAGEMENT

A) The students required to visit any one of the following:

- A departmental store
- An industrial unit
- A fast food outlet
- A bank
- Any other organisation

Note- You are required to observe the application of the general principles of management advocated by Fayol.

❖ Project Two - MARKETING MANAGEMENT

B) You are required to make a project on the identified imaginary product/service keeping in mind the following:

- Why have they selected this product/ service?
- Find out '5' competitive brands that exist in the market.
- What permission and licences would be required to make the product?
- What are your competitors Unique Selling Proposition (U.S.P)
- Does your product have any range give details?
- What is the name of your product?
- Enlist its features.
- Draw the "Label" of your product.
- Draw a logo for your product.
- Draft a tag line.
- What is the selling price of your competitors' product?

i) Selling price to the consumer

ii) Selling price to retailer

iii) Selling price to the wholesaler

❖ Guidelines for making the project report:

- Total pages – 25 to 30
- Files should be decorated properly
- Use only coloured sheets to make the file
- You can use your own creative ideas and skills to enhance the report outlook.
- Submission month of the file – July.

2. Revise and learn the entire syllabus covered in the class till now.

BIOLOGY

- 1) Revise your syllabus thoroughly
- 2) Practice diagrams on your notebooks.
- 3) Practice Board questions from each chapter.
- 4) complete your practical and project files.

PHYSICS

- 1) Revise Electrostatics thoroughly.
- 2) Solve numericals.
- 3) Complete your practical and project files.
- 4) Solve the assignment forwarded to you

CHEMISTRY

- 1) Revise Aldehydes, ketones and carboxylic acid, solutions thoroughly.
- 2) Solve numericals and practice conversion.
- 3) Complete your practical and project files.
- 4) Solve the assignment forwarded to you.

PUNJABI

ਜੈਕਟ ਫਾਇਲ: ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ

ਪੰਜਾਬ ਦੇ ਰਸਮ ਰਿਵਾਜ

ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ-ਖੇਡਾਂ ਅਤੇ

ਪੰਜਾਬ ਦੇ ਲੋਕ-ਨਾਚ (ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ 'ਤੇ) ਆਪਣੀ ਪ੍ਰੋਜੈਕਟ ਫਾਇਲ ਵਿਸ਼ੇ ਅਨੁਸਾਰ ਤਰਤੀਬ ਵਾਰ ਅਤੇ ਸੋਹਣੇ ਢੰਗ ਨਾਲ ਤਿਆਰ ਕਰੋ।

ਲਿਖਣ ਕੌਸ਼ਲ; 1. ਸਾਡੇ ਜੀਵਨ ਵਿੱਚ ਪੰਛੀ

2. ਚੰਗੀ ਬੋਲ ਚਾਲ

3. ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ

4. 21 ਵੀਂ ਸਦੀ ਦੀਆਂ ਚੁਣੌਤੀਆਂ

5. ਮੇਲਿਆਂ ਦਾ ਬਦਲਦਾ ਸਰੂਪ

6. ਗਿਆਨ ਕਾ ਬੱਧਾ ਮਨ ਰਹੇ

ਉੱਪਰ ਦਿੱਤੇ ਵਿਸ਼ਿਆਂ ਚੋਂ ਕਿਸੇ ਤਿੰਨ ਵਿਸ਼ਿਆਂ ਤੇ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕਰੋ।

PHYSICAL EDUCATION

Complete your practical file (SP Publisher)

1. Physical Fitness Test: SAI Khelo India test
2. Brockport Physical Fitness Test (BPFT)*.
3. Senior Citizen Fitness Test
4. Yoga-Complete all Asanas (Chapter 21) in your practical file.
5. Any one game of your choice from the following games. A labeled diagram of field and equipment (rules, terminology and skills)
 - Basketball
 - Football
 - Kabaddi
 - Kho-Kho
 - Volley Ball
 - Handball
 - Hockey
 - Cricket

MATHEMATICS

1. Express The matrix $\begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -2 & 1 & 2 \end{bmatrix}$ as the sum of a symmetric and skew symmetric matrix and verify your result.
2. If $A = \begin{bmatrix} 1 & 0 \\ -1 & 7 \end{bmatrix}$, find k such that $A^2 - 8A + KI = O$
3. If $A = \begin{bmatrix} 3 & -2 \\ 4 & -2 \end{bmatrix}$, find k such that $A^2 = KA - 2I_2$
4. Find the inverse of the matrix $\begin{bmatrix} 2 & 3 & 1 \\ 3 & 4 & 1 \\ 3 & 7 & 2 \end{bmatrix}$ and verify that $A^{-1}A = I_3$
5. Given $A = \begin{bmatrix} 5 & 0 & 4 \\ 2 & 3 & 2 \\ 1 & 2 & 1 \end{bmatrix}$, $B^{-1} = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$, compute $(AB)^{-1}$
6. If $A = \begin{bmatrix} 4 & 3 \\ 2 & 5 \end{bmatrix}$, find x and y such that $A^2 - xA + yI = O$
7. If $A = \begin{bmatrix} 3 & -2 \\ 4 & -2 \end{bmatrix}$, find the value of K so that $A^2 = KA - 2I$. Hence find A^{-1}
8. If $A = \frac{1}{9} \begin{bmatrix} -8 & 1 & 4 \\ 4 & 4 & 7 \\ 1 & -8 & 4 \end{bmatrix}$, prove that $A^{-1} = A^T$
9. Find matrix X and Y, if $2X - Y = \begin{bmatrix} 6 & -6 & 0 \\ -4 & 2 & 1 \end{bmatrix}$ and $X + 2Y = \begin{bmatrix} 3 & 2 & 5 \\ -2 & 2 & -7 \end{bmatrix}$
10. If $A = \begin{bmatrix} 2 & -2 \\ 4 & 2 \\ -5 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 8 & 0 \\ 4 & -2 \\ 3 & 6 \end{bmatrix}$, find matrix X such that $2A + 3X = 5B$.
11. Evaluate (i) $\left\{ \begin{bmatrix} 1 & 3 \\ -1 & -4 \end{bmatrix} + \begin{bmatrix} 3 & -2 \\ -1 & 1 \end{bmatrix} \right\} \begin{bmatrix} 1 & 3 & 5 \\ 2 & 4 & 6 \end{bmatrix}$ (ii) $\begin{bmatrix} 1 & 2 & 3 \end{bmatrix} \begin{bmatrix} 1 & 0 & 2 \\ 2 & 0 & 1 \\ 0 & 1 & 2 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \\ 6 \end{bmatrix}$
12. 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: $x - y + z = 4$, $x - 2y - 2z = 9$, $2x + y + 3z = 1$
13. The sum of three numbers is 6. If we multiply the third number by 2 and add the first number to the result, we get 7. By adding second and third numbers to 3 times the first number, we get 12. Using matrices find the numbers.
14. If $A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}$ And $B = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$ are two square matrices, find AB and hence solve the system of linear equations: $x - y = 3$, $2x + 3y + 4z = 17$, $y + 2z = 7$
15. If $A = \begin{bmatrix} 2 & -3 & 5 \\ 3 & 2 & -4 \\ 1 & 1 & -2 \end{bmatrix}$, find A^{-1} and hence solve the system of linear equations: $2x - 3y + 5z = 11$, $3x + 2y - 4z = -5$, $x + y - 2z = -3$

16. Solve the following system of equations by matrix method:

(i) $6x-12y+25z=4, 4x+15y-20z=3, 2x+18y+15z=10$

(ii) $3x+4y+7z=14, 2x-y+3z=4, x+2y-3z=0$

(iii) $\frac{2}{x} - \frac{3}{y} + \frac{3}{z} = 10, \frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 10, \frac{3}{x} - \frac{1}{y} + \frac{2}{z} = 13$

17. Prove that the relation R on the set $N \times N$ defined by $(a,b) R (c,d) \Leftrightarrow a + d = b + c \forall (a,b),(c,d) \in N \times N$ is an equivalence relation.

18. Let N denote the set of all natural numbers and R be the relation on $N \times N$ defined by $(a,b) R (c,d) \Leftrightarrow a d(b+c) = bc(a + d)$

19. Prove that relation R on Z defined by $(a, b) \in R \Leftrightarrow a-b$ is divisible by 5 is an equivalence relation on Z

20. $f:R \rightarrow R$ defined by $f(x) = 5x^3+4$. Check the injectivity and subjectivity of above function.

21. A function $f:[-4,4] \rightarrow [0,4]$ is given by $f(x)=\sqrt{16-x^2}$. Show that function is onto function but not a one- one function. Find all the possible values of a for which $f(a)=\sqrt{7}$.

22. Check the injectivity and subjectivity of the following function $f: Q-[-3] \rightarrow Q$ defined by $f(x)=\frac{2x+3}{x-3}$

COMPUTER SCIENCE

1. Read the following chapters from text book:

- a. Review of Python Basics
- b. Functions
- c. Data File Handling

2. Complete the exercise and assignment questions of the above mentioned chapters from book.

3. Revise the theoretical concepts of programming

4. Plan for the topic of the Project or Practical, group members in the project and submit the same after summer break.

PAINTING

Theory:-

Unit 2—The Mughal and deccan Schools of miniature painting
(16th century A.D. to 19th Century A.D.)

Practical:-

Two Still Life , One Portrait, One scenery, One Design Work

(Use Water Colours or Oil Colours or Acrylic Colours, Sheet, Size:-Half Thick Chart)

MUSIC

1: Revise the questions done in the class

2: Complete your file

Topics -

Alankar

Kan

Meend

Gram

Tana

3: Sangeet Ratnakar

Sangeet Parijat

4: Write about Ustaad gulam Ali khan

5: Dhamar taal

6: Tuning of tanpura

7: Write introduction of raag bhairav and it's notation