



HOLIDAY HOMEWORK 2023-2024
CLASS 12 COMMERCE

SUBJECT – ACCOUNTANCY

COMPLETE PROJECT WORK OF ACCOUNTANCY (HAND MADE FILE)

COMPREHENSIVE PROJECT 1 :

1. USE FINANCIAL STATEMENTS LIVE DATA OR 2022-2023 DATA OF ANY COMPANY AND PREPARE JOURNAL ,LEDGER , TRIAL BALANCE AND BALANCE SHEET

ALSO WRITE DOWN DETAILED CONCLUSION ON BEHALF OF COMPANY'S PERFORMANCE AND NON PERFORMANCE AND SUGGEST WAYS TO IMPROVE FINANCIAL HEALTH OF A COMPANY . STUDENTS SHOULD WRITE THIS PROJECT AT LEAST IN 12 TO 15 PAGES (A4 COLOUR OR A4 PLAIN PAPER)

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ALL THE BEST STUDENTS



HOLIDAY HOMEWORK 2023-2024
CLASS 12 COMMERCE

SUBJECT – BUSINESS STUDIES

PROJECT WORK:

PREPARE PROJECT ON HENRY FAYOL'S 14 PRINCIPLES OF MANAGEMENT ALSO DO FIELD VISIT TO ANY COMMERCIAL BRAND (ANY) AND OBSERVE THE FAYOL'S PRINCIPLES ARE BEING FOLLOWED OR NOT AND WRITE DOWN YOUR OBSERVATION IN YOUR FILE IN CONTEXT OF FAYOLS MANAGEMENT PRINCIPLES

OR

PREPARE PROJECT ON MARKETING MANAGEMENT ,CHOOSE YOUR OWN BRAND AND DO PROMOTION ,PRICE ,PLACE , PRODUCT ETC

NOTE : STUDENT'S NEED TO WRITE THIS PROJECT IN A4 COLOUR SHEET AND LIMIT OF PAGES NOT LESS THAN 15 PAGES.



HOLIDAY HOMEWORK 2023-2024

CLASS 12 COMMERCE SUBJECT –

ECONOMICS

COMPLETE PROJECT WORK OF ECONOMICS (HAND MADE FILE)

FOLLOWING POINTS FOR PROJECT RELATED

- 1) Minimum 40 pages Maximum 50 pages (Excluding certificate acknowledgement, conclusion, bibliography and index.
- 2) Use white A-4 sheets don't use colour sheets
- 3) File must be decorative use colour full papers use art and craft for file decoration
- 4) Diagram, and picture should draw by colour pencils
- 5) Covid impact is mandatory
- 6) Case studies as per discussion in class
- 7) No any overwriting is allowed
- 8) Use colour full pen and sparkle pen for writing the content

ALL THE BEST STUDENTS

ENGLISH

1. **‘Every human being is an escapist at some or the other level craving for a refuge in some or the other thing’.** Justify this statement in the light of the chapter ‘The Third Level’ by Jack Finney and your own observation of life prevailing around. (Word limit 150-200)

2. Make a comic strip of the chapter **‘The Last Lesson’** on A4 size sheet.

Holiday Homework 2023

COMPUTER SCIENCE

Suggested Practical List Python Programming

- Input a welcome message and display it.

- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.
- Determine whether a number is a perfect number, an armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.
- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Input a list of numbers and test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such number from the given list of numbers.
- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75

NOTE: Holiday homework should be done in Practical notebook.

Holiday Homework

Class XII

Subject: Mathematics

(Matrices)

Q 1 to 20 carry 2 marks each

Q1 If a matrix has 8 elements, what are the possible orders it can have? What if it has 5 elements?

Q2 Construct a 4×3 matrix whose elements are

$$(i) a_{ij} = 2i + j \quad (ii) a_{ij} = i - j \quad (iii) a_{ij} = i + j$$

Q3 If $A = \begin{bmatrix} x-y & z \\ 2x-y & \omega \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$ find x, y, z, ω .

Q4 Find a matrix X such that $2A + B + X = O$, where

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

Q5 If $A = \begin{bmatrix} 2 & -1 \\ 3 & 2 \end{bmatrix}, B = \begin{bmatrix} 0 & 4 \\ -1 & 7 \end{bmatrix}$, find $3A^2 - 2B + I$

Q6 If $A = \begin{bmatrix} \alpha & 0 \\ 1 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 0 \\ 5 & 1 \end{bmatrix}$, find the values of α for which $A^2 = B$.

Q7 Let $A = \begin{bmatrix} 2 & -1 \\ 3 & 4 \end{bmatrix}, B = \begin{bmatrix} 5 & 2 \\ 7 & 4 \end{bmatrix}, C = \begin{bmatrix} 2 & 5 \\ 3 & 8 \end{bmatrix}$

Find a matrix D such that $CD - AB = O$.

Q8 If the matrix $A = \begin{bmatrix} 5 & 2 & x \\ y & z & -3 \\ 4 & t & -7 \end{bmatrix}$ is a symmetric matrix, find x, y, z and t .

Q9 . If $A = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$ satisfies $A^4 = \lambda A$, then write the value of λ .

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$$

Q10 If $S = [S_{ij}]$ is a scalar matrix such that $s_{ij} = k$ and A is a square matrix of the same order, then $AS = SA$?

- (a) A^k (b) $k + A$ (c) kA (d) kS

Q11 If A is a square matrix such that $A^2 = A$, then $(I + A)^3 - 7A$ is equal to

- (a) A (b) $I - A$ (c) I (d) $3A$

Q12 If $\begin{bmatrix} 0 & 1 & -1 \\ 2 & 1 & 3 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} 0 \\ 1 \\ 1 \end{bmatrix} = 0$, find x .

Q13 If $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, then find λ so that $A^2 = 5A + \lambda I$.

Q14 If $A = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$, prove that $A^n = \begin{bmatrix} 1 & n \\ 0 & 1 \end{bmatrix}$ for all positive integers n .

Q15 If $A = \begin{bmatrix} \cos \theta & \sin \theta \\ \sin \theta & \cos \theta \end{bmatrix}$, then prove by principle of mathematical induction that

$$A^n = \begin{bmatrix} \cos n\theta & \sin n\theta \\ \sin n\theta & \cos n\theta \end{bmatrix} \text{ for all } n \in \mathbb{N}.$$

Q16 If $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & -2 \\ a & 2 & b \end{bmatrix}$ is a matrix satisfying $AA^T = 9I_3$, then find the values of a and b .

Q17 If $A = \begin{bmatrix} \cos\theta & \sin\theta \\ \sin\theta & \cos\theta \end{bmatrix}$, then find the values of θ satisfying the equation $A^T + A = I_2$.

Q18 Find the values of x, y, z if the matrix $A = \begin{bmatrix} 0 & 2y & z \\ x & y & -z \\ x & -y & z \end{bmatrix}$ satisfy the equation $A^T A = I_3$.

Q19 Express the matrix $A = \begin{bmatrix} 3 & 2 & 3 \\ 4 & 5 & 3 \\ 2 & 4 & 5 \end{bmatrix}$ as the sum of a symmetric and a skew-symmetric matrix.

Q20 Let A and B be symmetric matrices of the same order. Then, show that

(i) $A + B$ is a symmetric matrix

(ii) $AB - BA$ is a skew-symmetric matrix

(iii) $AB + BA$ is a symmetric matrix

Project -1

Make a project on Matrices and their applications (ex- coding and decoding, cryptography).

GREEN VIEW PUBLIC SCHOOL

PHYSICAL EDUCATION HOLIDAY HOMEWORK

SESSION: 2023-24

DEAR STUDENTS COMPLETE YOUR PHYSICAL EDUCATION FILE .

THANKS AND HAPPY HOLIDAYS