



ST. TERESA CONVENT SCHOOL
SEC- 25, PANCHKULA

SUMMER
VACATION

2021-2022



Dear Students

With summer holidays around the corner, our hearts swell up with a spectrum of emotions.

To maintain the educational continuum and to keep in view the rejuvenation you need, an enriching homework for the holidays is designed to keep you constructively busy and put boredom at bay. Continue to read e-newspaper every day and don't forget to complete your notebooks and assignment of the syllabus covered in online classes during April and May.

Don your thinking cap, wear your magic mantle to put forth your creative side. Have fun and frolic, build up your learning activities as a treasure,

Hope to see you soon.

Happy summers!

With best wishes

Principal, Class-Teacher and Subject-teachers

1. ENGLISH CORE (301) --- 10 Marks

SUBJECT TEACHER- MS. MANJULA UPPAL

EMAIL ID- meethiuppal@gmail.com

- 1) Paste three cuttings of a newspaper comprising 400-500 words each and **make notes** of these as per the format taught.

Heading/ Title of the Topic

Subheading

Sub- subheading (below subheading, you can add some points which are the part of the main topics.)

Abbreviation/ codes/ symbols (minimum of 4-6)

Summary in about 80-100 words

NOTE- Never use complete sentences. prepare notes using phrases only.

- 2) Pick five unseen passages from any English newspaper/ Magazine/ Previous books frame ten questions for the same and answer them (**attach the reference passages in your Notebook.**)

- 3) Draft two advertisement, each for **'Situation Vacant'** and **'Sale & Purchase'** columns.

- 4) Write any three **Articles** on;-

No nation can rise above the level of its teacher

Lockdown-How people all over the world are living through the pandemic.

Role of English in today's life.

Today's world needs peace.

- 5) **Speaking Skills:-** Prepare a speech of about three and a half minute on any current topic of your choice. This shall be a part of **ASL internal assessment** to be conducted after the vacation.
- 6) Revise Literature & Grammar syllabus done in the month of April & May.

Note:- All work must be done in English Literature Notebook.

2. Typography and Computer Application (817)- 10 Marks

SUBJECT TEACHER- Ms. PRIYA

EMAIL ID- pia.arora13@gmail.com

- 1) Write one manuscript of 200 words containing 10-12 proof correction signs.
- 2) Write one Official/Business letter of 180-200 words in MS Word.

3) Creating a following worksheet including main heading, column heading, Calculate:-

- Maximum marks obtained by which student in Math, Physics, Chemistry, Biology?
- Sum of all the subject marks obtained by each student.
- Average of each student.

Note:- Write the answers of the following worksheet with proper Syntax of each formula.

	A	B	C	D	E
1		Subject			
2	Name	Math	Physics	Chemistry	Biology
3	Matt	38	58	66	49
4	Bob	88	92	74	90
5	Tom	57	77	91	91
6	Brad	82	56	45	95
7	Jenny	55	55	65	75
8	Maria	44	69	80	90
9	Jill	75	51	57	84
10	Josh	38	37	51	56

4) Create a presentation with at least 10-15 slides including bulleted points, insertion of picture/clip arts, slide transition effects and custom animations, and saving the presentation.

Try saving your presentation on Google Drive and share your link.

Topics:-

1. Influences of Music in Mental Health
2. Being Productive During Pandemic
3. How Social Media Lowers Self-esteem
4. Advancement of 3D Printing and Its Benefits
5. Advantages and Disadvantages of Online Education
6. Benefits and Threats of Artificial Intelligence

5) Write down the following answers in the notebook:-

- Ø Explain the difference between Semi-Block and Fully Blocked Style.
- Ø Explain the difference between Indented and Semi-Block Style.
- Ø How many styles are implemented for Business Correspondence? Explain.
- Ø What is the difference between Formal and Informal Letters?
- Ø What is the difference between a Memorandum and an Office Note?
- Ø What is the difference between proof-reading and manuscript?

6) Typewrite a fair copy of the following Manuscript on your Computer by incorporating the corrections:

e.c. minutes may be defined as the Brief official
 rds. record of the business (at done) a meeting. The object
 of minutes is to preserve a clear, concise and
 accurate ~~correct~~ written record of the business
 p.c. transacted at a meeting, the members present,
 and the resolutions passed with the name of the
 proposer and seconders of each.

The minutes are taken at each meeting
 in note form by the Secretary and are after-
 words duly recorded in a minute book. The
 minutes of a meeting should contain only details essential.

The time, date and place of the meeting, and
 the names of those present must be
 recorded before the commencement of the meeting.

minutes of meetings - caps, etc. & underline

3. WEB. APPLICATION--- 10 Marks

SUBJECT TEACHER- MS. MUBAISHREE

EMAIL ID- tanejamubashira@gmail.com

1. What do you mean by javascript? Define its functions?
2. Write various Movie editing tools? practice all of these tools?
3. What is a Document object Model? Explain with Diagram.

4. INFORMATION TECHNOLOGY--- 10 Marks

SUBJECT TEACHER- MS. MUBAISHREE

EMAIL ID- tanejamubashira@gmail.com

1. Define followings?

- 1) Primary Key 2) candidate key 3) foreign Key 4) Super Key

2) Differentiate the following?

- I) DBMS VS RDBMS
II) Tuple VS Degree
III) cardinality vs Schema

3) Which of the following command(s) is / are related to transaction control in SQL?

- A. ROLLBACK
B. COMMIT
C. SAVEPOINT

4) Which of the following is true for a primary key?

- A. It can take a value more than once
B. It can take null values
C. It can't take null values
D. None of these

Q5) Which of the following statements is correct about 'CREATE TABLE' command while creating a table?

- A. We need to assign a data type to each column.
B. We have flexibility in SQL. We can assign a data type to column even after creating a table
C. It is mandatory to insert at least a single row while creating a table
D. None of these

5. HISTORY--- 10 Marks

SUBJECT TEACHER- MS. NEETA

EMAIL ID- meets.keyaan12@gmail.com

Make a project on "Mahabharata" and write the note on

- i) Introduction
ii) The older generation
iii) Hastinapur
iv) The pandavas and kauravas childhood

6. POLITICAL SCIENCE-- 10 Marks

SUBJECT TEACHER- MR. ATAM PRAKASH

EMAIL ID- atamunlimited@gmail.com

Complete the question answers of Chapter 1,3 of both the books on the

notebook and learn them.

7. HINDI CORE --- 10 Marks

SUBJECT TEACHER- MS. RUPAN BHANOT

EMAIL ID- hindistcs@gmail.com

(12) (2)
(5)
(3)
(10)
()
?
-

8. BUSINESS STUDIES--- 10 Marks

SUBJECT TEACHER- MS. POONAM MANKOTIA

1. You have to make project on any of the above topics in your notebooks only.

Principles of management

Or

Elements of Business Environment

2. Write and learn all the Key words used in chapters 1,2,3 given at the end of the chapters.

9. ECONOMICS--- 10 Marks

SUBJECT TEACHER- MS. POONAM MANKOTIA

1. Make project on any of the topics in your notebooks only
 - A. Pros and Cons of GST
 - B. How do our economy is affected by the COVID 19
2. Complete your notebooks by doing all NCERT based questions given at the end of chapters of chapter 1st and 2nd of both books.

10. PHYSICS--- 10 Marks

SUBJECT TEACHER- MS. SHWETA

EMAIL ID- *Shweta.brar86@gmail.com*

Ø Complete the practical record

Ø Complete the activity record

Ø Draw labeled Diagrams on the following topics on A4 size Sheets

- 1.Microscope and Telescope
- 2.Interference and Diffraction of light
- 3.Nuclear Reactor
- 4.Junction Diode
- 5.Junction transistor
- 6.Communication System
- 7.DC circuits and measurements

11. CHEMISTRY--- 10 Marks

SUBJECT TEACHER- MS. SANDHYA AGGARWAL

EMAIL ID- *aggarwalsandhya6@gmail.com*

1.Do 15- 15 numericals from solid state and solutions.

2.Do any one project from your practical file.

3. Do complete your NCERT questions of solid state and solution.

12. BIOLOGY--- 10 Marks

SUBJECT TEACHER- MS. SANDHYA AGGARWAL

EMAIL ID- *aggarwalsandhya6@gmail.com*

1. Make a project on principles of inheritance and variation
Do all NCERT questions of chapter 5 3. Do any project from your practical file..

13. PHYSICAL EDUCATION--- 10 Marks

SUBJECT TEACHER- MS. NEETA

EMAIL ID- meets.keyaan12@gmail.com

Make a chart of yoga with benefits and Complete your practical file.

14. ACCOUNTS--- 10 Marks

SUBJECT TEACHER- MR. ATAM PRAKASH

EMAIL ID- atamunlimited@gmail.com

Topics Covered : Past Adjustments

1. What do you mean by Past Adjustments?
2. What are the various examples of errors and omissions while preparing accounts of a Partnership Firm.
3. X, Y and Z are partners in a partnership firm. Their profit sharing ratio is 3:2:1. Their interest on capital was Rs. 6000 each. Firm omits to allow interest on capital to the partners. Pass necessary adjustment entry to rectify the error. (Omission of Interest on Capital)
4. P and Q were partners in a firm sharing profits equally. Their fixed capitals were Rs. 1,00,000 and Rs. 50,000 respectively. The partnership deed provided for interest on capital at the rate of 10% per annum. For the year ended 31st March, 2016, the profits of the firm were distributed without

providing Interest on Capital. Pass necessary adjustment entry to rectify the error. (Omission of Interest on Capital)

5. Azad and Benny are equal partners. Their capitals are Rs. 40,000 and Rs. 80,000 respectively. After the accounts for the year had been prepared, it was noticed that interest @ 5% p.a. as provided in the Partnership Deed was not credited to their capital accounts before distribution of profits. It is decided to pass an adjustment entry in the beginning of the next year. Record the necessary Journal Entry. (Omission of Interest on Capital)
6. X, Y and Z are partners in a firm. They are sharing their profits in the ratio of 5:3:2. Firm omits to charge interest on drawings from partners which were Rs. 20,000; Rs. 30,000 and Rs. 50,000 respectively. Pass adjustment entry to rectify this error. (Omission of Interest on Drawing)
7. Profit earned by a partnership firm for the year ended 31st March, 2020 were distributed equally between the partners- Pankaj and Anu, without charging interest on drawings. Interest due on drawings was Pankaj – Rs. 3,000 and Anu Rs. 1,000.

Pass necessary adjustment entry. (Omission of Interest on Drawings)

8. A, B and C are equal partners. Firm omits the following amounts;

- (i) Rs. 20,000 interest on capital of each of the partner.
- (ii) Rs. 40,000 salary to be given to B.
- (iii) Rs. 20,000 Commission to C.

Pass adjustment entry.

(Omission of Interest on capital, salary and commission)

9. X, Y and Z are partners in a firm. They are sharing profits in the ratio of 3:2:1. Following are the omissions while preparing accounts of the firm.

- (i) Interest on capital Rs. 5,000 each.
- (ii) Salary Rs. 6,000 to C
- (iii) Commission of Rs. 7,000 to B and Rs. 4,000 to C
- (iv) Interest on drawings of Rs. 4,000 from A and Rs. 2,000 each from B and C were not charged.

Pass Adjustment entry. (Omission of Interest on capital, salary , commission and interest on drawings)

10. Mita and Usha are partners in a firm sharing profits in the ratio of 2: 3. Their capital accounts as on 1st April, 2015 showed balances of Rs. 1,40,000 and Rs. 1,20,000 respectively. The drawings of Mita and Usha during the year 2015-16 were Rs. 32,000 and Rs. 24,000 respectively. Both the amounts were withdrawn on 1st January, 2016. It was subsequently found that the following items had been omitted while preparing the final accounts for the year ended 31st march, 2016:

- (i) Interest on Capital @ 6% p.a.
- (ii) Interest on Drawings @ 6% p.a.
- (iii) Mita was entitled to a commission of Rs. 8,000 for the whole year.

Showing your working clearly, pass a rectifying entry in the books of the firm. (Omission of Interest on capital, commission and interest on drawings)

15. MATHS--- 10 Marks

SUBJECT TEACHER- MS. SONIA VERMA

EMAIL ID- khurmi2121@gmail.com

1. Do complete the notes of Chapter 3 Matrices and Chapter 4 Determinants
2. Do complete the lab. Manual of chapter 3 and 4
3. Do the given worksheet.

Worksheet

1. Construct 3×4 matrix.
2. $A = [a_{ij}]_{m \times n}$ is a square matrix if
3. Check whether a square matrix $A = \begin{bmatrix} 1 & 2 \\ 4 & 8 \end{bmatrix}$ is singular.
4. Write the cofactor the elements of $\begin{vmatrix} 2 & -4 \\ 0 & 3 \end{vmatrix}$.
5. Construct 3×3 matrix, whose elements are given by: $a_{ij} = 2i-j$.
6. Find the value of of x, y and z from the following equation:
 $\begin{bmatrix} 4 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} & \\ & 5 \end{bmatrix}$
7. Evaluate the determinant : $\begin{vmatrix} \cos & -\sin \\ \sin & \cos \end{vmatrix}$.
8. If $A' = \begin{bmatrix} -2 & 3 \\ 1 & 2 \end{bmatrix}$ and $B' = \begin{bmatrix} -1 & 0 \\ 1 & 2 \end{bmatrix}$, then find $(A+2B)'$.
9. Using property of determinants ,show that: $\begin{vmatrix} 1 & 2 \\ 1 & 2 \end{vmatrix} = (-) (-) (-)$
10. Using elementary row transformation find the inverse of the following matrices: $\begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$
11. The cost of 4kg onion, 3kg wheat and 2kg rice is Rs.360. The cost of two kg onion, 4kg wheat and 6 kg rice is Rs.90 . The cost of 6 kg onion 2 kg wheat and 3kg rice is Rs.90 . Find the cost of of each item per kg by matrix method.
12. Verify $A(\text{adj}A) = (\text{adj} A)A = |A| I$

$$\begin{vmatrix} 1 & -1 & 2 \\ 3 & 0 & -2 \\ 1 & 0 & 3 \end{vmatrix}$$

(4)

13. Solve the system of equations using matrix method :

$$2x + 3y + 3z = 5$$

$$x - 2y + z = -4$$

$$3x - y - 2z = 3$$

14. Find the inverse of the following matrices:

$$\begin{bmatrix} 2 & 1 & 3 \\ 4 & -1 & 0 \\ -7 & 2 & 1 \end{bmatrix}$$



10.HINDI CORE --- 10 Marks

SUBJECT TEACHER- MS. RUPAN BHANOT

(12) (2)
(5)
(3)
(10)
()

?

-

11.BUSINESS STUDIES--- 10 Marks

SUBJECT TEACHER- MS. POONAM MANKOTIA

1. You have to make project on any of the above topics in your notebooks only.

Principles of management

Or

Elements of Business Environment

2. Write and learn all the Key words used in chapters 1,2,3 given at the end of the chapters.

12.ECONOMICS--- 10 Marks

SUBJECT TEACHER- MS. POONAM MANKOTIA

1. Make project on any of the topics in your notebooks only
 - C. Pros and Cons of GST
 - D. How do our economy is affected by the COVID 19
2. Complete your notebooks by doing all NCERT based questions given at the end of chapters of chapter 1st and 2nd of both books.

12. ACCOUNTS--- 10 Marks

SUBJECT TEACHER- MR. ATAM PRAKASH

EMAIL ID- atamunlimited@gmail.com

Topics Covered : Past Adjustments

1. What do you mean by Past Adjustments?
2. What are the various examples of errors and omissions while preparing accounts of a Partnership Firm.
3. X, Y and Z are partners in a partnership firm. Their profit sharing ratio is 3:2:1. Their interest on capital was Rs. 6000 each. Firm omits to allow interest on capital to the partners. Pass necessary adjustment entry to rectify the error. (Omission of Interest on Capital)
4. P and Q were partners in a firm sharing profits equally. Their fixed capitals were Rs. 1,00,000 and Rs. 50,000 respectively. The partnership deed provided for interest on capital at the rate of 10% per annum. For the year ended 31st March, 2016, the profits of the firm were distributed without

providing Interest on Capital. Pass necessary adjustment entry to rectify the error. (Omission of Interest on Capital)

5. Azad and Benny are equal partners. Their capitals are Rs. 40,000 and Rs. 80,000 respectively. After the accounts for the year had been prepared, it was noticed that interest @ 5% p.a. as provided in the Partnership Deed was not credited to their capital accounts before distribution of profits. It is decided to pass an adjustment entry in the beginning of the next year. Record the necessary Journal Entry. (Omission of Interest on Capital)
6. X, Y and Z are partners in a firm. They are sharing their profits in the ratio of 5:3:2. Firm omits to charge interest on drawings from partners which were Rs. 20,000; Rs. 30,000 and Rs. 50,000 respectively. Pass adjustment entry to rectify this error. (Omission of Interest on Drawing)
7. Profit earned by a partnership firm for the year ended 31st March, 2020 were distributed equally between the partners- Pankaj and Anu, without charging interest on drawings. Interest due on drawings was Pankaj – Rs. 3,000 and Anu Rs. 1,000.

Pass necessary adjustment entry. (Omission of Interest on Drawings)

8. A, B and C are equal partners. Firm omits the following amounts;

- (i) Rs. 20,000 interest on capital of each of the partner.
- (ii) Rs. 40,000 salary to be given to B.
- (iii) Rs. 20,000 Commission to C.

Pass adjustment entry.

(Omission of Interest on capital, salary and commission)

9. X, Y and Z are partners in a firm. They are sharing profits in the ratio of 3:2:1. Following are the omissions while preparing accounts of the firm.

- (i) Interest on capital Rs. 5,000 each.
- (ii) Salary Rs. 6,000 to C
- (iii) Commission of Rs. 7,000 to B and Rs. 4,000 to C
- (iv) Interest on drawings of Rs. 4,000 from A and Rs. 2,000 each from B and C were not charged.

Pass Adjustment entry. (Omission of Interest on capital, salary , commission and interest on drawings)

10. Mita and Usha are partners in a firm sharing profits in the ratio of 2: 3. Their capital accounts as on 1st April, 2015 showed balances of Rs. 1,40,000 and Rs. 1,20,000 respectively. The drawings of Mita and Usha during the year 2015-16 were Rs. 32,000 and Rs. 24,000 respectively. Both the amounts were withdrawn on 1st January, 2016. It was subsequently found that the following items had been omitted while preparing the final accounts for the year ended 31st march, 2016:

- (i) Interest on Capital @ 6% p.a.
- (ii) Interest on Drawings @ 6% p.a.
- (iii) Mita was entitled to a commission of Rs. 8,000 for the whole year.

Showing your working clearly, pass a rectifying entry in the books of the firm. (Omission of Interest on capital, commission and interest on drawings)

13. PHYSICS--- 10 Marks

SUBJECT TEACHER- MS. SHWETA

EMAIL ID- *Shweta.brar86@gmail.com*

Ø Complete the practical record

Ø Complete the activity record

Ø Draw labeled Diagrams on the following topics on A4 size Sheets

- 1.Microscope and Telescope
- 2.Interference and Diffraction of light
- 3.Nuclear Reactor
- 4.Junction Diode
- 5.Junction transistor
- 6.Communication System
- 7.DC circuits and measurements

14. CHEMISTRY--- 10 Marks

SUBJECT TEACHER- MS. SANDHYA AGGARWAL

EMAIL ID- *aggarwalsandhya6@gmail.com*

1.Do 15- 15 numericals from solid state and solutions.

2.Do any one project from your practical file.

3. Do complete your NCERT questions of solid state and solution.

13. BIOLOGY--- 10 Marks

SUBJECT TEACHER- MS. SANDHYA AGGARWAL

EMAIL ID- *aggarwalsandhya6@gmail.com*

2. Make a project on principles of inheritance and variation

3. Do all NCERT questions of chapter 5

3. Do any project from your practical file..

14. MATHS--- 10 Marks

SUBJECT TEACHER- MS. SONIA VERMA

EMAIL ID- khurmi2121@gmail.com

4. Do complete the notes of Chapter 3 Matrices and Chapter 4 Determinants
5. Do complete the lab. Manual of chapter 3 and 4
6. Do the given worksheet.

Worksheet

1. Construct 3×4 matrix.
2. $A = [a_{ij}]_{m \times n}$ is a square matrix if
3. Check whether a square matrix $A = \begin{bmatrix} 1 & 2 \\ 4 & 8 \end{bmatrix}$ is singular.
4. Write the cofactor the elements of $\begin{vmatrix} 2 & -4 \\ 0 & 3 \end{vmatrix}$.
5. Construct 3×3 matrix, whose elements are given by: $a_{ij} = 2i-j$.
6. Find the value of x, y and z from the following equation:
$$\begin{bmatrix} 4 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} x & y \\ z & 5 \end{bmatrix}$$
7. Evaluate the determinant : $\begin{vmatrix} \cos & -\sin \\ \sin & \cos \end{vmatrix}$.
8. If $A' = \begin{bmatrix} -2 & 3 \\ 1 & 2 \end{bmatrix}$ and $B' = \begin{bmatrix} -1 & 0 \\ 1 & 2 \end{bmatrix}$, then find $(A+2B)'$.
9. Using property of determinants ,show that: $\begin{vmatrix} 1 & 2 \\ 1 & 2 \end{vmatrix} = (\quad) (\quad) (\quad)$
10. Using elementary row transformation find the inverse of the following matrices: $\begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$
11. The cost of 4kg onion, 3kg wheat and 2kg rice is Rs.360. The cost of two kg onion, 4kg wheat and 6 kg rice is Rs.90 . The cost of 6 kg onion 2 kg wheat and 3kg rice is Rs.90 . Find the cost of of each item per kg by matrix method.
12. Verify $A(\text{adj}A) = (\text{adj} A)A = |A| I$

$$\begin{vmatrix} 1 & -1 & 2 \\ 3 & 0 & -2 \\ 1 & 0 & 3 \end{vmatrix}$$

(4)

13. Solve the system of equations using matrix method :

$$2x + 3y + 3z = 5$$

$$x - 2y + z = -4$$

$$3x - y - 2z = 3$$

14. Find the inverse of the following matrices:

$$\begin{bmatrix} 2 & 1 & 3 \\ 4 & -1 & 0 \\ -7 & 2 & 1 \end{bmatrix}$$

15. PHYSICAL EDUCATION--- 10 Marks

SUBJECT TEACHER- MS. NEETA

EMAIL ID- meets.keyaan12@gmail.com

Make a chart of yoga with benefits and Complete your practical file.

