

ST. MARY'S ACADEMY

CLASS 8 MATRIC

CLASS 8M

ENGLISH

ST. MARY'S ACADEMY

CLASS 8 MATRIC

Name: _____ Section: _____

Subject: English

WEEK 1

Q1. Put the verbs in the correct form of the Present Indefinite Tense.

Example: He wakes up early in the morning.

1) She (love) her cat very much.

2) It (rain) almost every Friday in our city.

3) Good students always (work hard).

4) The baby (cry) for milk.

5) Jamal (read) an English newspaper.

6) He (go) to school every day.

Q2. Change the Past tense into Interrogative sentences as done in the example. Example: I went to Karachi in December. Interrogative Sentence: Did I go to Karachi in December.

i) She purchased a book.

ii) He sold hot cakes.

iii) She baked a cake.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

iv) They wrote an essay.

v) He bought a car last month.

vi) We enjoyed our trip to Lake View Park.

Q3. Please read the lesson No. 1 and 2 carefully from PTB – 8 ENGLISH Text Book and answer the questions given below: -

(i) What do you mean by tolerance?

(ii) What did Hazrat Jibrael (A.I) ask the Rasool (P.B.U.H.) ?

(iii) What did the Rasool (P.B.U.H) say about revenge in his last address?

ST. MARY'S ACADEMY

CLASS 8 MATRIC

(iv) Why did Qasim go to Saudi Arabia?

(v) Why did Qasim come back from Saudi Arabia?

(vi) Why does Qasim's Uncle think that our English has to be good?

Q4. Make Nouns from the given words. Follow the example given for your understanding.

Example: die ---- death Breathe ---- breath

i) tolerate _____

ii) practice _____

iii) conquer _____

ST. MARY'S ACADEMY

CLASS 8 MATRIC

iv) destroy _____

v) object _____

Q5. Provide the correct Verb form in the blanks to make it into Present Perfect Tense by using 'has' or 'have'.

Example: They have arrived from England by plane just now. (arrive).

Answer: They have arrived from England by plane just now.

- i. We _____ an exciting football match today.
(has, have ---- watched, watch)
- ii. The clock _____ five (has, struck, strike)
- iii. The gardener _____ the lawn after a long time today. (mow, has, mowed)
- iv. _____ you ever _____ in the river? (swim, have, swum)
- v. The milk _____ sour. We can't drink it. (has, gone, go)
- vi. The butcher _____ a cow for the meat.
(slaughter, has)
- vii. He _____ two books this year. (publish, has, published)
- viii. I _____ not _____ Zahid since he was fourteen. (have, seen, see)
- ix. We _____ the match (win, have, won)
- x. Nausheen _____ her knitting and is now going to read a story book. (finish, has, finished)

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WEEK 2

Q1. Please read about Two Types of Articles, 'The Indefinite Article, 'a' and 'an' and The Indefinite Article, 'The' from Page No. 157 and 158 from PTB Grammar and Composition 9-10 and complete the given below exercise.

Use 'a', 'an' or 'the' where necessary

1. 1 _____ cat is a loving animal.
2. _____ table is made of wood.
3. _____ child drinks milk.
4. We eat rice with _____ spoon.
5. _____ mango has _____ sweet taste.
6. I want _____ cup of coffee.
7. We write on _____ paper.
8. Please give me a _____ piece of paper.
9. _____ door of _____ Room is broken.
10. There is _____ armchair in _____ corner.
11. We write with _____ pen.
12. They write _____ letter.
13. I like _____ butter.
14. I eat _____ bread.
15. I am eating _____ piece of bread.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

PREPOSITION

A preposition is a word placed before a noun or a pronoun to show in what selection the person or thing indicated by it stands in regard to something else.

Q2. Fill in the blanks with the given prepositions e.g. for, from, with, of, at, before,

1. He is fond _____ coffee.
2. The boy was ashamed _____ his behavior.
3. He was angry _____ me.
4. She was absent _____ the class.
5. Let us hope _____ the best.
6. I agree _____ you in this matter.
7. They were angry _____ me.
8. He will appear _____ the judge.
9. The train arrived _____ Lahore station in time.
10. He was not aware _____ my difficulties.

ADJECTIVE

An Adjective is a word used to add to the meaning of a noun or a pronoun. It describes or points out a person, animal, place or thing etc. Example good, bad, slow, quick etc.

Q3. A- Encircle the adjectives from the given sentences.

1. The child was very pretty.
2. He is a lazy boy.
3. I do not like that family.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

4. He gave me two pencils.
5. The team has done enough practice.
6. They showed much patience.
7. He did not eat any bread.
8. Most of the Europeans like football.
9. My students are very hardworking.
10. The poor man was begging for help.

ADVERB

An adverb is often used to modify a verb, adjective or another adverb. Adverb of Manner normally ends with 'ly' for example. Safely, quickly, lovely softly etc.

Q3. B-Encircle the Adverb of Manners in the following sentences.

1. He is finishing his work quickly.
2. She is preserving her dresses carefully.
3. He was holding the rope strongly.
4. My younger brother entered the room quietly.
5. My teacher spoke to me softly.
6. Aziz Bhatti Shaheed fought the war bravely.
7. We reached home safely after a long journey.
8. The shopkeeper talked strangely with the customer.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

Q4. Use the given words in your own sentences.

WORDS

SENTENCES

1) Recovered: _____

2) Deficiency: _____

3) Particularly: _____

4) Hardship: _____

5. Display: _____

6. Destroy: _____

7. Patience: _____

8. Conquest: _____

9. Objected: _____

10: Revenge: _____

Q5. Write a short Paragraph about the Importance of Personal Hygiene.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

CLASS 8M

MATHS

CLASS 8 MATRIX

Section: _____

WEEK 1

MATRIX

such as

1	3	4
7	2	0

is said to form a matrix.

$\begin{bmatrix} 1 & 3 & 4 \\ 7 & 2 & 0 \end{bmatrix}$, Similarly $\begin{bmatrix} 0 & 1 \\ 3 & 4 \end{bmatrix}$ is another matrix.

ROWS AND COLUMNS OF A MATRIX.

A diagram showing a 3x3 matrix with row and column labels. The matrix is enclosed in large square brackets. The rows are labeled R1, R2, and R3 on the right side, with arrows pointing to each row. The columns are labeled C1, C2, and C3 on the bottom side, with arrows pointing to each column. The matrix contains the following values:

1	2	0
3	5	4
2	1	-1

In matrix A the entries presented in horizontal way are called rows. In matrix A there are 3 rows, R1, R2 and R3,

In matrix, the entries presented in vertical way are called columns of matrix. Matrix A has three columns, C1, C2 & C3

ORDERS OF A MATRIX.

The number of rows and columns in a matrix specified its order. If a matrix M has m rows and n columns then matrix M is said to be of order **m-by-n e.g.**

$$M = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 0 & 2 \end{bmatrix}$$

Row – by – columns

Is of order

$$2 - by - 3$$

ST. MARY'S ACADEMY

CLASS 8 MATRIC

EQUAL MATRICES

Let A & B be two matrices . Then A is said to be equal to B, and denoted by $A=B$, if and only .

- The order of A = the order of B.
- Their corresponding entries are equal.

e.g

$$A = \begin{bmatrix} 1 & 3 \\ -4 & 2 \end{bmatrix}, \quad B = \begin{bmatrix} 1 & 2+1 \\ -4 & 4-2 \end{bmatrix} \text{ are equal matrices}$$

$$L = \begin{bmatrix} 2 & 3 \\ -1 & 2 \end{bmatrix}, \quad M = \begin{bmatrix} 2 & 3 \\ -1 & -2 \end{bmatrix} \text{ are not equal matrices}$$

➤ Learn these definitions and do your Ex. 1.1 on loose sheets.

Q3- Find values of a, b, c, d

$$\begin{bmatrix} a+c & a+2b \\ c-1 & 4d-6 \end{bmatrix} = \begin{bmatrix} 0 & -7 \\ 3 & 2d \end{bmatrix}$$

$$a+c=0, \quad a+2b=7$$

$$c-1=3, \quad 4d-6=2d$$

Solve these equation to find the values of a, b, c, and d

WEEK 2

TYPES OF MATRICES

Learn the definitions of Row Matrix, column Matrix, rectangular Matrix, Square Matrix, Null or Zero Matrix, Transpose of a Matrix, Negative of a Matrix, symmetric Matrix, Skew symmetric Matrix, diagonal Matrix, identity Matrix.

❖ Do your Ex. 1.2 on loose sheets.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

CLASS 8M

URDU

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CLASS 8 MATRIC

Name: _____

Section: _____

Subject: Urdu

پہلا ہفتہ

(نصاب نظم حمد - شاعر اسماعیل میرٹھی)

پہلا دن - نظم کا مطالعہ کر کے مشکل الفاظ کے معانی تحریر کریں اور انہیں یاد بھی کریں۔
دوسرا دن - نظم حمد کے مطابق درج ذیل سوالات کے جواب لکھیں۔

۱۔ حمد کس نظم کو کہتے ہیں؟

۲۔ کن حالات میں شاعر کا جگر قوی رہتا ہے؟

۳۔ شاعر کو کسی بھی چیز کا خوف کیوں نہیں ہے؟

۴۔ خوف زدہ کرنے والے مقامات کون سے ہیں؟

۵۔ حمد کا مطالعہ کرنے کے بعد آپ کے ذہن میں پہلا خیال کیا پیدا ہوتا ہے؟

تیسرا دن - درج ذیل الفاظ کے جملے بنائیں۔

سنان - شب - اندھیرا - سفر - قوی - پرہول -

چوتھا دن - لغت کی مدد سے اعراب لگائیں۔

حمد - نظر - اجالا - سحر - سمندر - تارے -

پانچواں دن - درج ذیل الفاظ میں سے مذکر اور مؤنث الگ الگ کر کے لکھیں۔

سمندر - شام - جڑ - وہم - مرگھٹ - آندھی - اندھیرا - آسمان -

ST. MARY'S ACADEMY

دوسرا ہفتہ۔

پہلا دن۔ دیئے گئے الفاظ میں سے مناسب لفظ کا انتخاب کر کے خالی جگہ پر کریں۔

۱۔ خوف کی وجہ سے کسی کے بھی اوسان ----- ہو سکتے ہیں۔ (گم ، خطا)

۲۔ حمد میں شاعر نے تارے کو----- سے تشبیہ دی ہے۔ (انگارے، شرارے)

۳۔ اللہ کی یاد سے ہمارا دل ----- رہتا ہے۔ (پرہول ، قوی)

۴۔ شام کا متضاد لفظ ----- ہے۔ (رات ، سویرا)

۵۔ حمد میں جانندی کا متضاد لفظ ----- بیان کیا گیا ہے۔ (گھپ اندھیرا، سحر)

دوسرا دن۔ طلبہ اللہ تعالیٰ کے کوئی سے یا نچ صفاتی نام خوش خط تحریر کریں اور ان کے معانی بھی لکھیں۔

تیسرا دن۔ (نصاب نظم نعت شاعر ساغر صدیقی)

نصائی کتاب میں دی گئی نعت کا مطالعہ کریں۔

چوتھا دن۔ نظم حمد اور نعت میں کیا فرق ہوتا ہے؟ تحریر کریں

یا نچواں دن۔ اپنے دوست کو خط لکھ کر اپنے پاس ہونے کی خوش خبری سنائیں۔

ST. MARY'S ACADEMY

CLASS 8 MATRIC

CLASS 8M PAKISTAN STUDIES

ST. MARY'S ACADEMY

CLASS 8 MATRIC

Name: _____ Section: _____

Subject: *Pakistan Studies*

WORKSHEET FOR WEEK 1

CHAPTER # 1

THE IDEOLOGICAL BASES OF PAKISTAN

DAY I

Fill in the blanks with the help of the text book and key words given below.

1. The Urdu Hindi Controversy started in _____.
2. The first Pillar of Islam is _____.
3. The fight of Freedom was fought in _____.
4. The supreme authority in Islam is _____.
5. Allama Iqbal gave the presidential Address in _____.

DAY II

6. _____ gave the idea of a separate state in 1930.
7. The establishment of Pakistan is an event of _____.
8. The State Bank of Pakistan was inaugurated on _____.
9. The ideology of Pakistan is based on _____.
10. The Word Pakistan was coined by _____.
11. _____ is the third Pillar of Islam.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

DAY III

12. The fourth Pillar of Islam is_____.
13. The Word _____is used for ideology in Urdu.
14. Pakistan came in to existence on_____.
15. Namaz is the_____ Pillar of Islam.
16. _____provide security to the people.
17. Fraternity means_____.
18. _____is the inventor of Word Pakistan.

DAY IV

19. Pakistan Resolution was passed on_____.
20. Allama Iqbal awakened the Muslims through his_____.
21. Lahore/ Pakistan Resolution was presided over by _____.
22. Lahore/ Pakistan Resolution was presented by_____.
23. Quaid-e-Azam was a staunch supporter of_____.
24. The foundation of the ideology of Pakistan is_____.
25. _____was the first person who first used the term Two Nation Theory.

KEY WORDS

1. Ch. Rehmat Ali	10. A.K.Fazalul Haq	18. Allama Iqbal
2. Two Nation Theory	11. Laws	19. Keeping Fast
3. Brotherhood	12. Sir Syed Ahmed Khan	20. Twentieth century
4. 1867	13. Islam.	21. Urdu
5. Touheed and / Prophethood	14. 14th August 1947	22. 1st July 1948
6. Second	15. 1857	23. CH. Rehmat Ali In 1933
7. 23rd March 1940	16. Allah Almighty	24. Zakat
8. poetry	17. 1930	25. 'Nazria'
9. Quaid-e-Azam		

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CLASS 8 MATRIC

DAY V

[Note: Read thrice, understand and rewrite the following questions.

(Max. Time 20 Min.)]

1. What is meant by ideology?

A. Ideology is a set of ideas based upon thinking and philosophy. It can be defined as under:

According to World Encyclopedia:

“Ideology is a set of political and cultural principles on which a nation and civilization is based.”

In the words of George Brass:

“Any plan or program of common life based upon thinking and philosophy is called ideology.”

2. What are the sources of ideology?

A. The sources of ideology are:

- a. Common religion
 - b. Common customs and traditions
 - c. Common language
 - d. Common political purpose
-

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WORKSHEET FOR WEEK II

DAY I

[Note: Read thrice, understand and rewrite the following questions.
(Max. Time 20 Min.)]

3. What is meant by the ideology of Pakistan?

A. The ideology of Pakistan is the name of:

- **Creating a society** based upon the principles of Islam.
- **Steps that were taken** for the security of political, social, cultural and economic values of the Muslims.
- **Strengthening the unity** among the Muslims without losing the national identity.
- **A welfare state** where the welfare of the people considered.

DAY II

[Note: Read thrice, understand and rewrite the following questions.
(Max. Time 20 Min.)]

4. What is the remarkable event of 20th century?

- Many countries and **nations got freedom** in twentieth century.
- The remarkable event of 20th century was the **establishment of Pakistan.**
- This event took place on **14th August, 1947.**

5. What are the beliefs of Islam?

The beliefs of Islam are:

- | | | |
|-------------|--------------------|-----------------|
| a. Tauheed | b. Angels | c. Divine books |
| d. Prophets | e. Day of Judgment | f. Fate |

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CLASS 8 MATRIC

DAY III

[Note: Read thrice, understand and rewrite the following questions.
(Max. Time 20 Min.)]

6. Name the pillars of Islam.

The pillars of Islam are:

- | | |
|-------------------|-------------------|
| a. Shahada | b. Prayer (Namaz) |
| c. Fasting (Roza) | d. Zakat |
| | e. Hajj |

7. Write the translation of

Translation:

"Allah hath power over all things."

It means that Allah has created the whole Universe. The man, being His deputy has the authority to exercise the powers given by Allah, but the real powers lie with Allah.

DAY IV

8. What is the importance of Zakat in the economic system of Islam?

- Zakat is the **fourth** pillar of Islam.
- It strengthens the **economic system of Islam**.
- With the system of Zakat wealth in **circulates** instead of accumulating in a few hands. Thus it **reaches to the poor class** of the society.

DAY V

9. What did Quaid-e-Azam say about the security of minorities?

The Quaid-e-Azam said very clearly that:

"The rights of minorities will be fully protected in Pakistan.

Islam does not allow that life, property, dignity and religious traditions of the minorities in Pakistan go unprotected."

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CLASS 8 MATRIC

10. What is meant by Tauheed?

Tauheed means that;

- a. Allah is one.
- b. He has no rival.
- c. Nothing is beyond His knowledge.

ST. MARY'S ACADEMY

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CLASS 8 MATRIC

CLASS 8M

ETHICS

ST. MARY'S ACADEMY

CLASS 8 MATRIC

Name: _____ Section: _____

Subject: Ethics

WORKSHEET-1

Lesson No.1 : Personal and Psychological importance of Religion

After reading the lesson fill in the blanks. (use your neat copy for answers)

- (1) Man has to fulfill the needs of his _____ to live.
- (2) Man has been blessed as the crown of _____.
- (3) Man has _____ needs along with physical needs.
- (4) Spiritual needs can be fulfilled with the help of proper _____.
- (5) Religion is a part of the _____ nature of man.
- (6) Different religions were revealed at different _____.
- (7) _____ taught man the way of living his life.
- (8) One common thing in all religions is _____.
- (9) _____ sense helps to distinguish between right and wrong, good and evil.
- (10) A part of all religious books is based on _____ values.
- (11) Non-intuitive religions are based on the study of _____ values.
- (12) Religious teachings are based on fear of _____.
- (13) _____ and religion have had a relationship for _____ of years.
- (14) The study of self was started in _____.
- (15) Inherited skills are called _____ behavior.
- (16) All the Events of man's life are stored in _____.
- (17) Religion is the biggest _____ supporter of man.
- (18) Religion saves man from _____ diseases.

Lesson No.2: Religion society and morality

After reading the lesson fill in the blanks. (use your neat copy for answers)

- (1) A big part of religion is comprised of _____.
- (2) Basic responsibility of religion is to guide _____.
- (3) Aristotle and Plato have given more importance to _____ than individual.
- (4) _____ decides between right and wrong.

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CLASS 8 MATRIC

WORKSHEET-2

- (5) The teachings of religion are closer to human_____.
- (6) Rituals and habits are the outcome of _____.
- (7) Morality is often derived from_____.

Lesson No.3: Universal Religions

After reading the lesson fill in the blanks. (use your neat copy for answers)

- (1) Human beings never remained without any_____.
- (2) The follower of Jainism are over_____.
- (3) The first Teer Thinker was_____.
- (4) The last Teer Thinker was_____.
- (5) _____has the highest importance in Jainism.
- (6) Non-living spirits have _____features.
- (7) _____is the finest from of matter.
- (8) _____is everywhere in space.
- (9) _____pollutes the piety of spirit.
- (10) Spirit is enslaved by_____.
- (11) For Self-control these are many_____ in Jainism.
- (12) Jainism declares five non-living things to be _____.
- (13) Coming of the spirit to this world in different forms is called _____
- (14) The process of _____ is never ending.

Lesson No. 1: Personal and Psychological importance of Religion

Answer the following questions in 3to 4 lines. (use your neat copy for answers)

- 1- How spiritual needs can be fulfilled?

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WORKSHEET-3

2- How the human beings can distinguish between right and wrong?

3- What is the base of non- intuitive religions?

4- What is the base of religious teachings?

5- What is psychology?

6- What is the role of religion in character building?

7- What is the function of conscience?

8- What is instinctive behavior?

9- How religion is a psychological support to man.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WORKSHEET-4

10- How a man can be saved from evil.

11- What are the positive impacts of religion?

Lesson No.2: Religion society and morality

Answer the following questions in 3to 4 lines. (use your neat copy for answers)

1- What is the basic responsibility of religion?

2- What is religion?

3- What is sociology?

4- Why the laws were made?

5- Why an individual easily accepts the moral teachings of religion.

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WORKSHEET-5

6- Why the individual is given importance in the teachings of morality?

7- Why does the society is important?

8- Why the moral teachings of religion are effective?

9- What are the common values of various religions?

10- What is the basic right of every human being?

11. What is disliked by every society?

12- What prevents human beings from committing crimes?

13- What is the relationship between religion and morality?

ST. MARY'S ACADEMY

CLASS 8 MATRIC

WORKSHEET-6

Lesson No.3: Universal Religions

Answer the following questions in 3 to 4 lines (use your neat copy for answers)

1- Why does Mahaveer has highest importance in Jainism?

2- How the believers of Jainism take it?

3- Who was the first and last Teer thinker in Jainism?

4- Who has the highest importance in Jainism?

5 Why the last Teer thinker has the highest importance in Jainism.

6. The foundation of the teachings of Mahaveer laid on what?

7- What is the central idea of Jainism?

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CLASS 8 MATRIC

CLASS 8M

ISLAMIIYAT

CLASS 8 MATRIX

Section: _____

(حصہ اول)

۱۔ فکر مندی سے

ST. MARY'S ACADEMY

CLASS 8 MATRIC

(حصہ دوم)

سوال نمبر ۳۔ درج ذیل سوالات کے مختصر جوابات تحریر کریں۔

۱۔ عقیدہء آخرت کے کوئی سے دو اجزا لکھیے۔

۲۔ سائنس دان عقیدہء آخرت کے بارے میں کس بات پر متفق ہیں؟

۳۔ حج کے لغوی اور شرعی معنی لکھیے۔

۴۔ احرام کسے کہتے ہیں۔ مرد و عورت کے احرام میں کیا فرق ہے؟

۵۔ من لا یرحم لا یرحم کا ترجمہ لکھیے۔

۶۔ تحل کے کیا معنی ہیں؟

۷۔ اللہ تعالیٰ نے اپنے رسول ﷺ کے ذمے کیا کام لگایا؟

۸۔ رسول ﷺ نے اسلام اور قرآن کی دعوت کا کام کتنے عرصے میں مکمل کیا؟

۹۔ رسول ﷺ کے دانت مبارک کس غزوہ میں شہید ہوئے؟

۱۰۔ ایمان والوں کو مصیبت اور مشکل کے وقت میں کیا طرز عمل اختیار کرنا چاہیے؟

(حصہ سوم)

نوٹ۔ مندرجہ ذیل سوالات کے تفصیلی جوابات تحریر کریں۔

۱۔ ایمان بالآخرۃ کے اجزاء کیا ہیں؟

۲۔ اطاعت الہی اور اعلیٰ کردار صرف عقیدہء آخرت ہی کے ذریعے ممکن ہے۔ تشریح کریں۔

۳۔ اسلام میں حج کو کیا حیثیت حاصل ہے؟ تفصیل سے بیان کریں۔

۴۔ رسول ﷺ کے عفو و درگزر کا کوئی واقعہ بیان کریں؟

۵۔ رسول ﷺ کی جانوروں پر شفقت کے بارے میں آپ کیا جانتے ہیں؟

ST. MARY'S ACADEMY

CLASS 8 MATRIC

CLASS 8M CHEMISTRY

ST. MARY'S ACADEMY

CLASS 8 MATRIC

Name: _____ Section: _____

Subject: Chemistry

WEEK 1

NOTE FOR THE STUDENTS:

Learn all the work given in the worksheet and practice daily.

DAY 1:

Q 1. What are Elements?

Q 2. Enlist 20 elements in your workbook and learn.

DAY 2:

Q 1. Define Symbols. For the 20 elements write their symbols with their names.

Q 2. Choose the correct option.

i. The Symbol for Sodium element is

a. N b. S c. Na d. P

ii. F symbol stands for the element

a. Ferric b. Phosphorus c. Fluorine d. Nitrogen

DAY 3:

Q 1. What is Matter?

Q 2. Define an Atom. What are mono atomic and diatomic atoms.
Give Examples

Q 3. Define Electron, Proton and Neutron. Also draw their location in an atom.

DAY 4:

Q 1. What are Ions? Differentiate between Cations and Anions.

Q 2. Find out the Cations and Anions from the following list;

H, Na, F, Mg, Ca, O, Li

Q 3. Choose the correct option.

i. In a chemical reaction Ca losses how many electrons;

a. 1 b. 2 c. 3 d. 4

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CLASS 8 MATRIC

WEEK 2

DAY 1:

- Q 1. What are Compounds? Give five examples.
- Q 2. Fill in the blanks with the suitable words from vocabulary.
1. Burning of paper is a ----- change
 2. The chemical formula of iron oxide is -----
 3. A ----- is the smallest particle of an element or a compound that can exist by itself.
 4. Two atoms of an element combine to form a -----

Atom, Molecule, Fe₂O₃, Chemical

DAY 2:

- Q 1. What is Mixture? Differentiate between Homogenous and Heterogeneous mixture.
- Q 2. Give at least three examples of Homogenous and Heterogeneous mixture.
- Q 3. Choose the correct option.
- i. Which of the following is a chemical change?
- a) bursting of a fire cracker
 - b) germination of seed
 - c) coal formation
 - d) all of these
- ii. In which type of change a new substance is formed
- a) Physical change
 - b) chemical change
 - c) Nuclear change
 - d) climate change

DAY 3:

- Q 1. What is meant by Atomic Number?
- Q 2. Find out the Atomic number of the following elements.

Element	Symbol	Atomic number	Atomic mass	No. of electrons	No. of Protons	No. of Neutrons
Sodium	Na		23	11	11	12
Hydrogen	H		2	1	1	0
Boron	B		11	5	5	6
Silicon	Si		28	14	14	14

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DAY 4:

- Q 1. How will you define Atomic Mass. Write down the Atomic Mass of first twenty elements of the periodic table.
- Q 2. What is the mass number of an atom that has 11 protons and 13 neutrons?
- Q 3. Choose the correct option.
- i. A compound with chemical formula Na_2CX_3 has formula mass 106 amu. Atomic mass of the element X is _____
- A. 106 B. 23 C. 12 D. 16

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CLASS 8 MATRIC

CLASS 8M

BIOLOGY

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CLASS 8 MATRIC

Name: _____ Section: _____

Subject: *Biology*

WEEK 1

NOTE FOR THE STUDENTS:

Learn all the work given in the worksheet and practice daily.

DAY 1:

Fill in the blank with appropriate words given in the vocabulary.

1. _____ is the study in which observations are made, experiments are done.
2. Biology is the scientific study of _____.
3. The division of biology that deals with the study of animals is called _____.
4. Botany is the division of biology deals with the study of _____.
5. The study of the structures and functions of cells and cell organelles is called _____.

Cell biology, Science, Zoology, Life, Plants

DAY 2:

Give brief answer of the following Questions.

Q. 1 What is Science?

Science is the study in which observations are made, experiments are done and logical conclusions are drawn in order to understand the principles of nature.

Q. 2 Define Biology.

Biology is the scientific study of life. The word "biology" has been derived from two Greek words; 'bios' meaning 'life' and 'logos' meaning 'thought or reasoning'.

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CLASS 8 MATRIC

Q. 3 What are the Major Divisions of biology?

There are three major divisions of biology which study the different aspects of the lives of the major groups of organisms.

ZOOLOGY:

This division of biology deals with the study of animals

BOTANY:

This division of biology deals with the study of plants.

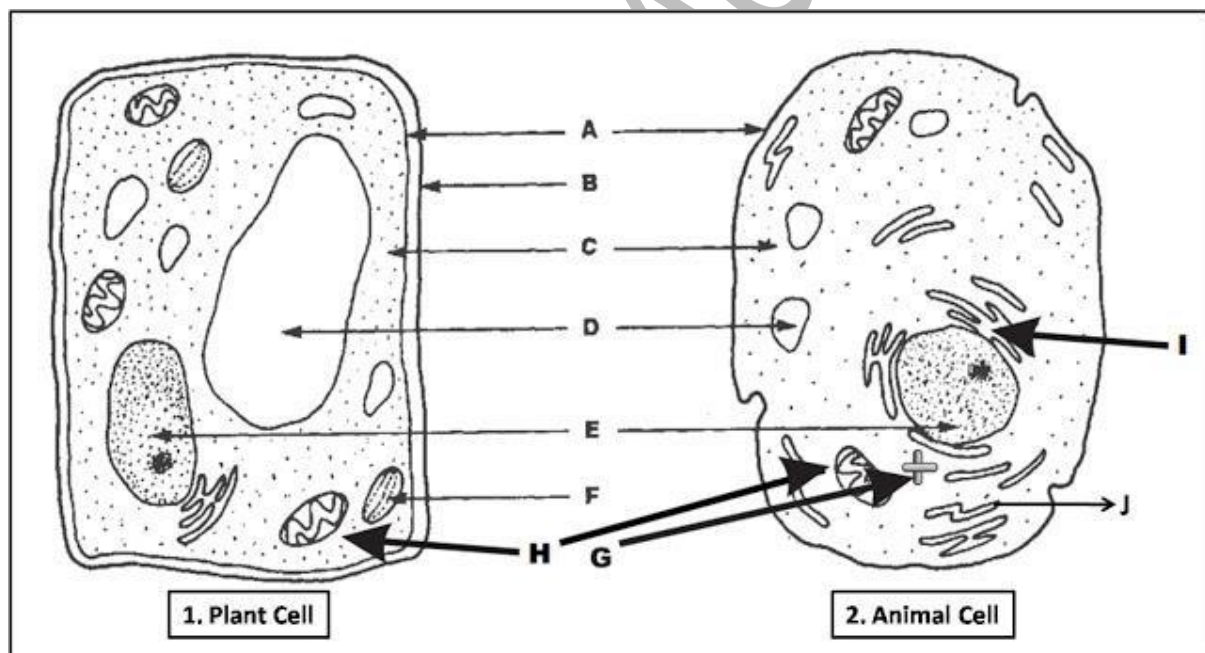
MICROBIOLOGY:

This division of biology deals with the study of microorganisms such as bacteria etc.

DAY 3:

Activity:

Label the diagrams of Plant and Animal cell also draw it in your work book.



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CLASS 8 MATRIC

DAY 4:

Define the following branches of biology.

Morphology:

This branch deals with the study of form and structures of living organisms.

Anatomy:

The study of internal structures is called anatomy.

Histology:

The microscopic study of tissues is called histology.

Cell biology:

The study of the structures and functions of cells and cell organelles is called cell biology. This branch also deals with the study of cell division.

Physiology:

This branch deals with the study of the functions of different parts of living organisms.

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CLASS 8 MATRIC

WEEK 2

DAY 1:

Give short answers of the following questions.

Q. 1 What is Genetics?

The study of genes and their roles in inheritance is called genetics. Inheritance means the transmission of characters from one generation to the other.

Q. 2 Define Embryology?

It is the study of the development of an embryo to new individual.

Q.3 What is meant by Taxonomy.

It is the study of the naming and classification of organisms into groups and subgroups.

Q.4 What is Paleontology?

It is the study of fossils, which are the remains of extinct organisms.

Q. 5 Define Environmental biology.

It deals with the study of the interactions between the organisms and their environment.

Q. 6 What is the role of Sociology in biology?

This branch of biology deals with the study of social behavior of the animals that make societies.

DAY 2:

Fill in the blank with appropriate words given in the vocabulary below.

1. The branch of biology which deals with the study of form and structures of living organisms is called _____.
2. _____ is the study of the development of an embryo to new individual.
3. The microscopic study of _____ is called histology.

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CLASS 8 MATRIC

4. Palaeontology is the study of _____, which are the remains of extinct organisms.
5. _____ means the transmission of characters from one generation to the other.
6. The branch of biology that deals with the study of the functions of different parts of living organisms is called _____.
7. Taxonomy is the study of the naming and _____ of organisms into groups and subgroups.

Inheritance, Tissues, Fossils, Physiology, Classification, Morphology, Embryology

DAY 3:

ACTIVITY

Recall the diagram of Plant and Animal cell and write down the functions of the following.

- | | | |
|---------------|-----------------|----------------|
| i. Nucleus | ii. Cell wall | iii. Cytoplasm |
| iv. Ribosomes | v. Mitochondria | vi. Plastids |

DAY 4:

Choose the correct option.

- i. The branch Parasitology deals with the study of
a. Plants b. Insects c. Animals d. Parasites.
- ii. Members of the same species living in the same place at the same time make a;
a. Habitat b. Biosphere c. Community d. Population
- iii. Which of these major bioelements is in the highest percentage in protoplasm?
a. Carbon b. Hydrogen c. Oxygen d. Nitrogen

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CLASS 8 MATRIC

CLASS 8M

PHYSICS

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CLASS 8 MATRIC

Name: _____ Section: _____

Subject: *Physics*

Chapter: 01

Choose the best one.

1) Which of the following is the study of fourth state of matter?

A: Quantum physics

B: Nuclear physics

C: Nanophysics

D: Plasma physics

2) If you are not able to understand or do a part of experiment, what should you do?

A: Ask the teacher about it

B: Do it again and again, until you find its solution

C: Figure it out by trial and error method

D: Leave it and turn to next part

3) Which is the most common instrument used in laboratories to measure length?

A: Meter ruler

B: Both meter rule and half meter rule

C: Half meter ruler

D: Measuring tape

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4) While taking a measurement, which of the following errors takes place due to wrong positioning of eye?

A: Systematic error

B: Vision error

C: Position error

D: Parallax error

5) Amount of a substance in terms of numbers is measured in.

(a) gram

(b) kilogram

(c) newton

(d) mole

6) An interval of 200 s is equivalent to.

(a) 0.2s

(b) 0.02s

(c) 2

(d) 10^{-4}

7) Which one of the following is the smallest quantity?

(a) 0.01g

(b) 2mg

(c) 100g

(d) 5000ng

8) Which instrument is most suitable to measure the internal diameter of a test tube?

(a) metre rule

(b) vernier Callipers

(c) measuring tap

(d) screw Guage

9) A student claimed the diameter of a wire as 1.032cm using Vernier Callipers. Upto what extent do you agree with it?

(a) 1cm

(b) 1.0cm

(c) 1.03cm

(d) 1.032cm

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10) A measuring cylinder is used to measure.

- (a) mass
- (b) area
- (c) volume
- (d) level of a liquid

11) A student noted the thickness of a glass sheet using a screw gauge. On the main scale, it reads 3 division while 8th division on the circular scale coincides with index line. Its thickness is.

- (a) 3.8cm
- (b) 3.08mm
- (c) 3.8mm
- (d) 3.08mm

12) Significant figures in an expression are.

- (a) all the digits
- (b) all the accurately known digits
- (c) all the accurately known digits and the first doubtful digit
- (d) all the accurately known and the doubtful digits

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CLASS 8 MATRIC

Subjective

Q2. Write Short answer of questions.

i. Define Physics?

ii. Estimate your age in seconds?

iii. What is meant by vernier constant?

iv. What do you understand by the zero error of a measuring instrument?

v. What is meant by zero error and zero correction?

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vi. What do you know about metre rule?

vii. What is meant by Base Quantities?

viii. What is meant by derived quantities? Give two examples.



Q3. Write Short answer

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CLASS 8 MATRIC

i. What is meant by prefixes?

ii. Write down two rules to find the significant digits in a measurement?

iii. Why there is a need of some standard quantities?

iv. Define electromagnetism.

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CLASS 8 MATRIC

v. How do we use stopwatch?

vi. Define atomic physics and nuclear physics?

vii. Define mechanics and geophysics?

viii. What is meant by International System of Units?

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Q4. Write Short answers.

i. Define Heat and Light?

ii. Round of 1.35 and 1.45?

iii. What is meant by significant figures and how many significant figures are there in

0.0127?

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CLASS 8 MATRIC

iv. Define least count of screw gauge?

vi. Write the scientific Notation: (i) 100.8 sec (ii) 0.00580 km

vii. What is the use of prefixes?

5

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CLASS 8 MATRIC

Section-II

Q1: (i). Define base units and make table of six base units with name, symbol and unit?

ii. A chocolate wrapper is 6.7 cm long and 5.4 cm wide. Calculate its area
reasonable number of significant figures?

o

Q2: (i). What are the measuring instruments? Explain the meter rod.

ii. Write the following in standard form. (i) 1168×10^{-27} (ii) 32×10^5

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CLASS 8 MATRIC

Q3: (i). Define Prefixes with the help of Table?

ii. Your hair grow at the rate of 1 mm per day. Find their growth rate in nms⁻¹

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CLASS 8 MATRIC

CLASS 8M COMPUTER

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CLASS 8 MATRIC

Name: _____ Section: _____

Subject: Computer

Short questions about history of computer (Learnt in previous Classes)

Q#1: What is computer? How does it work?

Q#2: What is Abacus?

❖ Date and place of Invention

❖ Structure:

❖ Working:

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CLASS 8 MATRIC

Q#3: What is Napier's Bone?

❖ Inventor, Date and place of Invention

❖ Structure:

❖ Working:

Q#4: What is Pascaline?

❖ Inventor, Date and place of Invention

❖ Structure:

❖ Working:

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CLASS 8 MATRIC

Q # 5: What is Difference Engine?

Q#6: What is Analytical Engine?

Q#7: Who is called the Father of Modern Digital Computer?

Q # 8: What is Hollerith Desk?

❖ Inventor, date and place of invention

❖ Structure and working

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CLASS 8 MATRIC

Q # 9: What is Slide Rule?

❖ Inventor, date and place of invention

❖ Structure and working

Q # 10: What is Mark-I?

❖ Inventor, date and place of invention

❖ Structure and working

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CLASS 8 MATRIC

Extensive Questions related to History of Generations of Computers

Q#1: Write the characteristics of First Generation Computers (1940 – 1956).

Characteristics

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Some Examples of First Generation Computers

Q#2: Write the characteristics of Second Generation Computers (1956 – 1963).

Characteristics

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Examples of Second Generation Computers

Q#3: Write the Characteristics of Third Generation Computers (1963 – 1971).

Characteristics

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Examples of Third Generation Computers

Q#4: Write the characteristics of Fourth Generation Computers (1971 – Present).

Characteristics

Examples of Fourth Generation Computer

Q#5: Write characteristics of Fifth Generation Computers.

Characteristics

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CLASS 8 MATRIC

Examples of Fifth Generation Computers

Note: Print this document and practice in your own writing.

Contact if feel any problem 5pm to 6pm (Monday to Friday)

Qaisar Naveed (Computer Teacher) 03315130468 or in case of line busy contact on WhatsApp.