

ST. MARY'S ACADEMY

CLASS 9 MATRIC

CLASS 9M

ENGLISH

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____ Section: _____

Subject: *English*

Worksheet 1 (1st Week, Day 1)

Q.1 Read "chapter number 9 "All is not lost" and find out the answers and learn them by heart.

1. What is an ICU in the hospital?
2. To what extent does the recovery of the patient depend upon the doctor and the nurse?
3. What do you infer about her professional skills from the expression, "Try once for her"?
4. Identify kinds of nouns used in the text.

Q.2 Write the meanings of the following words

1. Neurology
2. Devastating
3. Neurons
4. Recruit
5. Popping in
6. Crutches
7. Gradually
8. Miserable.

Q.3 Write and learn the Magnetic statements

- "Try once for her"
- Where there is a will there is a way"

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Worksheet 2 (1st Week , Day 2)

Q.1: Identify the phrases and idioms from the unit and use them in sentences.(pg98)

Q.2: Use the following words in sentences first as a verb then as a noun.(pg98)

1. Care
2. Walk you
3. Surprise
4. Request
5. Need
6. State

Q.3: Rewrite the paragraph (pg. 99 A).Put articles to replace > where necessary.

Worksheet 3 (1st Week, Day 3)

Q.1: Complete the sentences by using compound prepositions. (pg. 100)

Q.2: Write Past Perfect Continuous forms of verbs given in brackets. (pg. 101)

Q.3: Make five sentences using Past Perfect Continuous Tense and convert them in to negative and interrogative sentences. (pg.101)

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Worksheet 4 (1st Week, Day 4)

Q.1: Read Chapter number 10; find the answers of the following questions moreover learn it by heart.

1. Are the drug addicts aware of the dangers of drugs?
2. Which environmental factors are responsible for drug addiction?
3. Which treatment is available for the rehabilitation centers for drug victims?
4. What do you understand by the term “counseling”

Q.2: Write the meanings of the following words. (pg. 107)

1. Absolute
2. Influence
3. Taboo
4. Curative
5. Rehabilitation
6. Relapse

Q.3: write and learn the following Magnetic Statements.

- “Theme revolves around the harmful effects of the drug addiction”
- It highlights the vital role that counseling plays in making people live a healthy life.

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Worksheet 5 (1st Week , Day 5)

Q.1: Use Relative Pronoun in the blanks given in the exercise. (pg. 109)

Q.2: Use the following relative pronouns in sentences.

- Who
- Which
- That
- Who
- Whose

Q.3: Underline adjective clauses. Also encircle relative pronouns. (pg. 110)

Worksheet 6 (2nd week , Day 6)

Q.1: Write the suitable adjectival clauses. (pg. 101)

1. Where is the book _____
2. Any student _____
3. I know the woman _____
4. That is the girl _____
5. Where is the man _____

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Q.2: Write a paragraph on “Drug Abuse, a threat to the society”(add at least two suitable quotations in a paragraph)

Worksheet 7 (2nd week, Day 7)

Q.1: Write paragraphs on the following topics.

- Effects of Noise pollution
- Green Pakistan

**Note: Include at least two suitable quotations in each paragraph.
Word limit 100-150)**

Worksheet 8 (2nd week, Day 8)

Q.1: Draw and learn the table of the following tenses. (Table consists of classification of Tense, Tense structure/Formula, one example each)

- | | | |
|----------------------|----------------------------|--------------------|
| • Present Indefinite | present perfect | present continuous |
| | present perfect continuous | |
| • Past indefinite | past perfect | past continuous |
| | past perfect continuous | |
| • Future indefinite | future perfect | future continuous |
| | future perfect continuous | |

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Worksheet 9 (2nd week, Day 9)

Q.1: Learn and write the following parts of speech, provide two examples of each topic.

- Noun (kinds)
- Verb(kinds)
- Pronoun (kinds)
- Adjective (kinds)
- Adverb (kinds)
- Preposition
- Conjunction
- Interjection

Worksheet 10 (2nd week, Day 10)

Q.1: Find and Write the examples of Adjectives and Adverbs from Unit 9 “All is not Lost”.

Q.2: Find and write the examples of Relative Pronouns and Compound prepositions from unit 10, “Drug Addiction”

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MATHS

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CLASS 9 MATRIC

Name: _____ Section: _____

Subject: Maths

Choose the best one.

1. Which is order of a rectangular matrix?

- (a) 2-by-2
- (b) 4-by-4
- (c) 2-by-1
- (d) 3-by-3

2. The idea of a matrices was given by:___

- (a) Arthur Cayley
- (b) Leonard Euler
- (c) Henry Briggs
- (d) John Napier

3. A square matrix A is called singular if

- (a) $|A| \neq 0$
- (b) $|A| = 0$
- (c) $A = 0$
- (d) $A^t = 0$

4. If A is a matrix then its transpose is denoted by:

- (a) A^{-1}
- (b) A^t
- (c) $-A$
- (d) $(A^t)^t$

5. A square matrix A is called non-singular if:

- (a) $|A| = 0$
- (b) $A = 0$
- (c) $|A| \neq 0$
- (d) $A^t = 0$

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6. If entries are presented in a matrix in vertical way then it is called

- (a) Columns matrix
- (b) diagonal matrix
- (C) Row matrix
- d) Unit matrix

7. $A+B=A+B$ then than this property is called $A + B = A= B+A$

- (a) Multiplicative Identity
- (c) Addition identity
- (b) Multiplicative inverse
- (d) Additive inverse

8. If $A +B=B +A$ Then this property is called

- (a) Multiplicative inverse
- (C) Associative property
- (b) commutative Property
- (d) Distributive Property

9. Transpose columns matrix is called

- (a) Square matrix
- (c) Null matrix
- (b) Row matrix
- (d) Scalar matrix

10. To solve simultaneous equations. we use method.

- (a) inverse method
- (c) Cramer Rules
- (b) both a and b
- (d) none of above

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SECTION II

solve these questions.

1. Define singular and non singular matrices with examples.

2. What is the multiplication inverse of a matrix?

3. Find the value of a, b, c and d which satisfy the matrix equation.

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

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4. if $A = \begin{bmatrix} -1 & 3 \\ 2 & 0 \end{bmatrix}, B = \begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$ and $C = \begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix}$

8

then check whether $A(BC) = (AB)C$

[illegible]

5. If $A = \begin{bmatrix} 1 & 2 \\ 4 & 6 \end{bmatrix}$ & $B = \begin{bmatrix} 3 & -1 \\ 2 & -2 \end{bmatrix}$ Then,

prove that $(\text{adj} A)A = A(\text{adj} A) = (\det A)I$

[illegible]

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6 Use matrices, if possible, to solve the following systems of linear equations by:

i. Matrix inversion method

ii. Cramer's rule

$$2x - 2y = 4$$

$$3x + 2y = 6$$

7. Use matrices, if possible, to solve the following systems of linear equations by:

i. Matrix inversion method

ii. Cramer's rule

$$2x + y = 3$$

$$6x + 5y = 1$$

8. The length of a rectangle is 4 times its width. The perimeter of the rectangle is 150 cm. Find the dimensions of the rectangle.

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9. Two sides of a rectangle differ by 3.5cm. Find the dimensions of the rectangle if its perimeter is 67cm.

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10. Two cars that are 600 km apart are moving towards each other. Their speeds differ by 6 km per hour and the cars are 123 km apart after hours. Find the speed of each car.

[illegible]

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CLASS 9M

URDU

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CLASS 9 MATRIC

Name: _____ Section: _____

Subject: Urdu

work sheet .urdu SSC.I (Week one)April 2020

(نصاب: سبق: کاہلی۔ مصنف: سر سید احمد خان صفحہ نمبر ۱۲ تا ۱۹)

نوٹ: اردو کے کام کے لیے ممکن ہو تو answer sheet کا استعمال کیجیے۔ نیلا مارکر اور نیلا بال پوائنٹ یا پوائنٹر کا استعمال کیجیے۔
صفحے کے دونوں جانب حاشیہ لگائیے۔ خوشخطی کا خاص خیال رکھیے۔

سبق کا بغور مطالعہ کیجیے۔ مشکل الفاظ کے معانی لغت سے تلاش کیجیے اور کالم بنا کر کم از کم ۲۰ الفاظ معانی تحریر کیجیے۔

Day one

مکالمہ نویسی کی تعریف اور اس کے اصول لکھیے (کتاب اردو صفحہ نمبر 67)

Day 2

تاریخ پاکستان کے موضوع پر مکالمہ تحریر کیجیے (قواعد و انشا صفحہ 76)

”سر سید احمد خان کا تعارف“ اور سبق ”کاہلی“ کا مطالعہ کرتے ہوئے کم از کم ۲۰ MCQ'S تلاش کر کے درست جواب کی نشاندہی کیجیے۔

Day 3

سبق ”کاہلی“ کا بغور مطالعہ کرتے ہوئے حل تحریر کیجیے۔ (مشق سبق ”کاہلی“ صفحہ نمبر ۱۲ تا ۱۹)

Day 4

سوال نمبر ۳۔ (موزوں الفاظ سے خالی جگہ پر کیجیے) سوال نمبر ۵۔ درست اور غلط بیان کی نشاندہی کیجیے۔

سوال نمبر ۶۔ اعراب لگا کر تلفظ واضح کیجیے۔ (اعراب لغت سے تلاش کیجیے)۔ مضمون کی تعریف تحریر کیجیے۔

سر سید احمد خان کا اسلوب نگارش (صفحہ نمبر ۱۲۔ پیرا گراف ۲) تحریر کیجیے۔

Day 5

سر سید احمد خان کی اہم تصانیف بتائیے۔

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work sheet .urdu SSC.I (Week .2)April 2020

(نصاب: نظم: حمد۔ شاعر: خواجہ الطاف حسین حالی صفحہ نمبر ۱۰۵ تا ۱۰۹)

نوٹ: اردو کے کام کے لیے ممکن ہو تو answer sheet کا استعمال کیجیے۔ نیلا مارکر اور نیلا بال پوائنٹ یا پوائنٹر کا استعمال کیجیے۔
صفحے کے دونوں جانب حاشیہ لگائیے۔ خوشخطی کا خاص خیال رکھیے۔

نظم کا بغور مطالعہ کیجیے۔ مشکل الفاظ کے معانی لغت سے تلاش کیجیے اور کالم بنا کر کم از کم ۲۰ الفاظ معانی تحریر کیجیے۔
ادبی اصطلاح میں ”حمد“ سے کیا مراد ہے؟ (تعریف لکھیے)

Day one

Day 2

”قافیہ اور ردیف“ کی تعریف لکھیے اور دو شعر مثالیں تحریر کیجیے (صفحہ نمبر ۱۰۸ تا ۱۰۹)

Day 3

”خواجہ الطاف حسین حالی کا تعارف“ اور نظم ”حمد“ کا مطالعہ کرتے ہوئے کم از کم ۲۰ MCQ'S تلاش کر کے درست جواب کی نشاندہی کیجیے۔

Day 4

نظم ”حمد“ کا بغور مطالعہ کرتے ہوئے حل تحریر کیجیے۔ (مشق نظم ”حمد“ صفحہ نمبر ۱۰۷ تا ۱۰۸)

سوال نمبر ۳۔ (الفاظ و مرکبات کے معانی لغت سے تلاش کر کے تحریر کیجیے)

سوال نمبر ۶۔ اعراب لگا کر تلفظ واضح کیجیے۔ (اعراب لغت سے تلاش کیجیے)۔

سوال نمبر ۷۔ (مناسب لفظ کی مدد سے مصرعے مکمل کیجیے)

سوال نمبر ۸۔ ”نامحرم“ اور ”نافرمان“ میں ”نا“ سابقہ ہے۔ آپ ایسی پانچ مثالیں تلاش کر کے تحریر کیجیے جن میں ”نا“

سابقہ کے طور پر استعمال ہوا ہو۔ (لغت سے تلاش کیا جاسکتا ہے)

غیر رسمی خط کی تعریف لکھیے۔ (کتاب اردو۔ صفحہ نمبر ۲۳)

Day 5

اپنے دوست کے نام خط تحریر کیجیے اور بتائیے کہ ”کورونا وائرس“ کی وبا“ سے بچتے ہوئے آپ اپنا وقت کن دلچسپ اور کارآمد مشاغل میں صرف کر رہے ہیں۔

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CLASS 9 MATRIC

CLASS 9M PAKISTAN STUDIES

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____ Section: _____

Subject: *Pakistan Studies*

WORKSHEET WEEK I

CHAPTER # 1 THE IDEOLOGICAL BASES OF PAKISTAN

DAY I

Self-Assessment [Max. Time: 15Mim]

Fill in the blanks with the help of textbook and the key words given at the end:

1. The Urdu Hindi Controversy started in _____.
2. The first Pillar of Islam is Touheed and Risalat / Prophethood.
3. The fight of Freedom was fought in _____.
4. The supreme authority in Islam is _____.
5. Allama Iqbal gave the presidential Address in _____.
6. _____ gave the idea of a separate state in 1930.
7. Sir Syed Ahmed Khan was the first person who first used the _____.
8. The establishment of Pakistan is an event of _____.
9. The State Bank of Pakistan was inaugurated on _____.
10. The ideology of Pakistan is based on _____.
11. The Word Pakistan was coined by _____.
12. _____ is the third Pillar of Islam.
13. The fourth Pillar of Islam is _____.

DAY II [Max. Time: 15Min.]

14. The Word 'Nazria' is used for ideology in _____.
15. Pakistan came in to existence on _____.
16. _____ is the second Pillar of Islam.s
17. _____ provide security to the people.
18. Fraternity means _____.
19. _____ is the inventor of Word Pakistan.
20. Pakistan Resolution was passed on _____.
21. Allama Iqbal awakened the Muslims through his _____.
22. Lahore/ Pakistan Resolution was presided of _____.
23. Lahore/ Pakistan Resolution was presented by _____.
24. Quaid-e-Azam was a staunch supporter of _____.
25. The foundation of the ideology of Pakistan is _____.

Key Words:

Allah Almighty Islam, A.K.Fazalul Haq, 14th August 1947, Two Nation Theory, 23rd March 1940, Zakat, poetry, Urdu, brotherhood, Keeping Fast, Quaid-e-Azam, Ch. Rehmat Ali, CH. Rehmat Ali in 1933, 1867, 1930, Allama Iqbal, twentieth century, 1st July 1948, Islamic ideology. Namaz,

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DAY III

Self-Assessment [Max. Time: 20 Min.]

CHAPTER # 2

MAKING OF PAKISTAN

Fill in the blanks with the help of textbook and the key words given at the end:

1. Quaid-e-Azam started his political career in _____.
2. The Quaid-e-Azam joined Muslim League in _____.
3. The Lucknow Pact was made between Muslim League and congress in _____.
4. Rowlat Act was passed in _____.
5. The year of Delhi Proposal is _____.
6. Nehru Report was published in _____.
7. The Quaid-e-Azam presented his Fourteen Points in _____.
8. The Round Table Conferences were held in _____.
9. The Congress Ministries were formed in _____.
10. The Muslims of sub-continent celebrated the _____ at the end of Congress Raj.
11. Sindh Muslim League Passed a resolution in favour of partition in _____.
12. The 27th annual session of Muslim League was held at Lahore on _____.
13. Lahore/ Pakistan Resolution was presided over by _____.
14. Lahore/ Pakistan Resolution was presented by _____.
15. Cripps Mission came to India in _____.

DAY IV

Self-Assessment [Max. Time: 20 Min.]

16. A Mission of British government came to India in 1942 under the headship of _____.
17. Jinnah Gandhi talks took place in _____.
18. Mr. Gandhi launched 'Civil Disobedience Movement' and 'Quit India Movement'.
19. Chakravarti Raj Gopal Achria was a leader of _____.
20. C.R Formula was presented by Raj Gopal Acharya in _____.
21. Raj Gopal Acharya was known in the public as _____.
22. C.R Formula was sent to the Quaid-e-Azam on _____.
23. The World War II broke out in _____.
24. Simla Conference was held in _____.
25. In 1945 Labour Party came in to power in _____.

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26. Muslim League Legislators Convention was held at Delhi on _____. The Cabinet Mission came to India in _____.
27. There were _____ members in Cabinet Mission.
28. On _____ the members of Cabinet Mission announced a plan of their own.
29. The day of _____ 1946 was declared as Direct Action Day by the Muslim League.
30. There were _____ ministers from Muslim League for Interim Government 1946.

DAY V

Self-Assessment [Max. Time: 20 Min.]

31. In all the Provincial Legislatures _____ seats were reserved for Muslims.
32. Jogender Nath Mandal belonged to Achhoot the Untouchable cast of Hindus.
33. The Partition Plan of sub-continent was announced on _____.
34. The Indian Independence Act was approved on _____.
35. At the time of partition of India there were _____ princely states.
36. At the time of partition _____ was the Viceroy of India.
37. _____ was the head of Boundary Commission.
38. India got independence on _____.
39. The system of government developed by the European Nations is called _____.
40. Vasco de Gama was a Portuguese navigator, arrived on the East African Coast in _____.
41. The Battle of Palasi was fought in _____.
42. Nawab Siraj ud Dula was defeated in the war of _____.
43. Nawab Siraj ud Dula was the ruler of _____.
44. British defeated Nawab Siraj ud Dula with the help of his uncle _____.

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WEEK II

DAY I

Self-Assessment [Max. Time: 20 Min.]

45. In _____ Mughal ruler Shah Alam Sanni and Mir Qasim were defeated in the Battle of **Buxar**.
46. Hider Ali was the ruler of _____.
47. After the death of Hider Ali his son _____ continued Jihad against British.
48. Tipu Sultan was martyred in **1799** in the Battle of _____.
49. The East India Company came to an end in _____.
50. The colonial rule of the British Government continued till _____.
51. Quaid-e-Azam was born on _____ in Karachi.
52. After higher education Muhammad Ali Jinnah returned in _____.
53. The Quaid-e-Azam joined Muslim League in _____.
54. Quaid-e-Azam started his political career in _____.
55. Quaid-e-Azam died on _____.
56. Quaid-e-Azam was buried in _____.
57. Pakistan came in to being on _____.

Key Words

- | | | |
|---|--------------------------------|----------------------------------|
| • 1916 | • 1945 | • Mir Jafer |
| • 1930-32 | • Brittan | • Bengal |
| • 1929 | • 1944 | • 1947 |
| • 1906 | • 1938 | • 1896 |
| • 1919 | • 23 rd March 1940 | • Tipu Sultan |
| • 1928 | • Quaid-e-Azam | • 1764 |
| • 16 th May, 1946 | • K. Fazalul Haq | • Mysore |
| • 1913 | • 1942 | • 1913 |
| • three | • 1944 | • 492 |
| • 1927 | • Raja Gee | • Colonialism |
| • 16 th August | • 19 th April, 1946 | • 3 rd June, 1947 |
| • five | • 1946 | • 18 th July 1947 |
| • 1937 | • 1857 | • 635 |
| • 1945 | • Palasi | • 1498 |
| • 1939 | • 1757 | • Cyril Radcliff |
| • 8 th April | • Mysore | |
| • 1944 | • Karachi | |
| • 'Day of Deliverance' on 22 nd December | | • 25 th December 1876 |

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- 15th August, 1947
- Lord Mount Batten
- 11th September, 1948
- 1906 and joined Congress
- Sir Stafford Cripps
- Indian National Congress
- 14th August, 1947

DAY II- V

Self-Assessment [Max. Time: 20 Min.]

CHAPTER NO 3 LAND AND ENVIRONMENT OF PAKISTAN

Objectives

Read Chap #3 & 4 and learn the given objectives by heart:

1. The full name of Pakistan is 'The Islamic Republic of Pakistan'.
2. The total area of Pakistan is 796096 sq. km.
3. Pakistan is located in the south of the Continent Asia.
4. Pakistan is located between latitude 23.5 and 37N, longitude 61 and 77E.
5. In the north of Pakistan there is China.
6. India lies in the East of Pakistan and have almost 1600 km common a border.
7. The border line between Pakistan and Afghanistan is called Durand Line.
8. Durand Line is 2250 Km long.
9. The Central Asian Republics are located in the North West of Pakistan.
10. Arabian Sea is located in the South of Pakistan.
11. Pakistan is divided into three major parts with respect to physical features.
12. Nanga Parbat is the highest peak of Himalayan Range.
13. The beautiful Kashmir Valley is located between Pir Panjal and Himalayan Range.
14. Mt. Godwin Austin or K-2 is the highest peak of Karakoram Range. It is 8611 m high.
15. The world's highest passes are located in Karakoram Range.
16. Through Silk Route Pakistan is connected to China.
17. Tirich Mir is the highest peak of Hindukush Range.
18. Khyber Pass is located in Koh-e- Sufaid.
19. Takht -e- Suleiman is the highest peak of Suleiman Range.
20. Rivers Hub and Lyari flow from Khirthar Range towards the Arabian Sea.
21. Khyber Pass lies to the north of Koh-e-sufaid.
22. Tochi and Gomal Passes are situated in Waziristan Hills.
23. Toba Kakar Mountain Range is situated along the Afghan border to the south of Waziristan Hills.
24. Pothowar Plateau is situated in the north of Salt Range.
25. The height of Salt Range at Sakesar is 1500m.
26. There are two plateaus in Pakistan.
27. Pothowar Plateau is situated in the north of Salt Range.
28. River Swan is an important river of Pothowar Plateau.
29. The average temperature of coastal area is about 32 degree.
30. The coastal area of Pakistan is 700 km long.
31. Hamoon-e-Mashkhal Lake is situated in Baluchistan province.
32. Rivers Gomal, Zhob and Hingol are located Baluchistan province.
33. 'Kharan Desert' is situated in Baluchistan Province.
34. Pakistan is divided into four climatic zones.
35. The plain area of Pakistan starts from Pothowar Plateau and stretches to Mithankot.
36. Doab is a piece of land lies between two rivers.
37. The desert area of Bahawalpur is called Thar.
38. Desert is an area that receives less than 10 inches of rainfall.
39. Thar Desert lies in the province of Punjab.
40. River Indus enters Pakistan at Sakardu.
41. River Indus makes its Delta near Thatta.

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42. Thar is the largest desert of Pakistan.
43. In Pakistan there are forests only on 5 % of its total area.
44. Markhor is the national animal of Pakistan.
45. Chakor is the national bird of Pakistan.
46. The underground water channels in Baluchistan are called 'Karees'.
47. About 20 million acres land in Pakistan is suffering from water logging and salinity.
48. The level of noise pollution is much higher in urban area.
49. Biafoo is a Glacier of Pakistan.

CHAPTER No. 4 HISTORY OF PAKISTAN Objectives

1. Radcliff unjustly deprived Pakistan of some Muslim majority areas.
2. The constituent Assembly elected Quaid-e-Azam as a Governor General of Pakistan on 11th August, 1947.
3. Originally, the first constituent Assembly was consisted of 69 members.
4. Moulvi Tameez ud Deen was appointed as the first speaker of the constituent Assembly.
5. Quaid-e-Azam worked as a Governor General of Pakistan for 13 months.
6. Quaid-e-Azam died on 11th September, 1948.
7. Quaid-e-Azam made Karachi the capital of Pakistan.
8. Pakistan became the member of UN under the dynamic leadership of Quaid-e-Azam.
9. The first Educational Conference was held in 1947.
10. At the time of partition of India there were 635 princely states.
11. On 15th August, 1947 Liaqat Ali Khan became the first Prime Minister of Pakistan.
12. Liaqat Ali Khan was born at Kamal, in 1896. He was assassinated on October 16, 1951.
13. Liaqat Ali Khan joined Muslim League in 1923.
14. Liaqat Ali Khan visited The United States of America in 1950.
15. The Objective Resolution was passed on 12th March, 1949.
16. The Objective Resolution was presented by the first Prime Minister Liaqat Ali Khan.
17. Constitution is the collection of fundamental rules and regulations.
18. Constitution is the supreme law of a state.
19. Pakistan and India had fought three wars.
20. The first constitution of Pakistan was promulgated on 23rd March, 1956.
21. The constitution of 1956 was consisted of 234 articles, 13 parts and 6 schedules.
22. A unicameral type of legislature was introduced under the constitution of 1956.
23. According to the constitution of 1956 National Assembly was consisted of 300 members.
24. The constitution of 1956 was a Federal constitution.
25. Under the constitution of 1956 both Urdu and Bengali were declared as the national languages of Pakistan.
26. The 1956 constitution remained implemented for two years and seven months.
27. The 1956 constitution was abrogated by General Ayub Khan on 8th October, 1958.
28. A new system of Basic Democracies (BD) was introduced in 1959 by General Ayub Khan.
29. For Land Reforms General Ayub Khan set up a Commission in 1959.
30. General Ayub Khan promulgated Muslim family Law ordinance in 1961.
31. The constitution of 1962 was promulgated on 8th June.
32. There were 250 articles and five schedules in the constitution of 1962.
33. Under the constitution of 1962 both Urdu and Bengali were declared as the national language of Pakistan.
34. India attacked Pakistan on the night of 6th September 1965.
35. The War of September 1965 lasted for 17 days.
36. Kashmir conflict was the real cause of the war of 1965.

ST. MARY'S ACADEMY

CLASS 9 MATRIC

37. Ceasefire took place on 23rd September, 1965.
 38. General Ayub Khan ruled the country for ten years.
 39. Six Points Formula was presented by Sheikh Mujeeb Ur Rehman in 1966.
 40. General Yahya Khan abolished the separate status of the Princely States in 1969.
 41. General Yahya Khan announced a Legal Frame Order to hold General Election in 1970.
 42. According to LFO, the number of National Assembly seats was 300.
 43. In the General Elections of 1970, Sheikh Mujeeb Ur Rahman won 167 seats out of 169.
 44. Pakistan People Party won the majority seats in West Pakistan in the general Elections of 1970.
 45. On December 16, 1971 Bangladesh emerged on the Map of World.
 46. On 23rd March, 1974 Sheikh Mujeeb Ur Rahman hoisted the flag of Bangladesh at his residence.
-

ST. MARY'S ACADEMY

CLASS 9 MATRIC

CLASS 9M

ETHICS

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____ Section: _____

Subject: Ethics

Worksheet No: 1-

Lesson No.4: Morals and values Greatness of God

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

- (1) Man has always been aware of the existence of _____.
- (2) Judaism Christianity and Islam are _____ religions.
- (3) The entire universe is running according to a _____.
- (4) Paley was western _____.
- (5) Religions of the world are divided in to _____ parts.
- (6) _____ were sent for the guidance of mankind.
- (7) According to Hinduism God is _____.
- (8) Ram and Kristen are the _____ of God.
- (9) One group of Hindus believes that _____ is god.
- (10) _____ did not comment about God.
- (11) _____ is the biggest preacher of the oneness of.
- (12) Divine Religions claim the unity of _____.
- (13) Buddhism is part of _____ religions.

Lesson No.5: Places of worship

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

- (1) The concept of the _____ being has always been in _____ mind.
- (2) To worship collectively the worship _____ were established.
- (3) Currently there are _____ of worship places.
- (4) According to _____ this world is a place of preparation for the life to come.
- (5) In Hinduism a worship place is called a _____.
- (6) The status represents the characteristics of _____.
- (7) In Hinduism women mostly worship at _____.

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CLASS 9 MATRIC

Subject: Ethics

Worksheet No: 2-

- (8) Kumbh Mela is a _____ festival.
- (9) Kumbh Mela takes place every _____ years at _____ different places.
- (10) Cow, monkey and snake are considered sacred by the _____.
- (11) To bath in river _____ is considered a blessing.
- (12) In _____ physical meditation is stressed.
- (13) Vedanta focuses on getting _____.
- (14) Sandalwood and rice are offered to the _____.
- (15) Going around garlanded statues is called _____.
- (16) God and deities are shown _____.
- (17) In Hinduism some rites are performed by the scholar of _____.
- (18) _____ hold a prominent position in Hinduism.
- (19) There are _____ fasts in Hinduism in the year.
- (20) Hindu yogis abstain from eating during _____ days.
- (21) Statues are decorated with flowers and _____.
- (22) Zoroastrians are worshippers of _____.
- (23) Zoroastrian temple is called _____.
- (24) Zoroastrians chant hymns or mantras in front of the _____.
- (25) Fire reminds Zoroastrians about their _____.
- (26) In the Sub-continent Zoroastrians are known as _____.
- (27) In _____ the concept of God does not exist.
- (28) Buddhism places more emphasis on _____ education.
- (29) According to _____ community Buddha was considered a God.
- (30) In Buddhism place of worship is called _____.

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CLASS 9 MATRIC

Subject: Ethics

Worksheet No: 3-

- (31) In _____ group there is no concept of any God.
- (32) In Buddhism there are _____ acts of worship.
- (33) _____ performs the religious duties in Buddhism.
- (34) In Buddhism _____ reads from the Holy book.
- (35) A _____ has to avoid eating in the afternoon.
- (36) Christianity began _____ years ago.
- (37) The churches are mostly _____ in shape.
- (38) The first church was built in _____.
- (39) _____ is a holy day for worship in Christianity.
- (40) The meaning of _____ is to pour water.
- (41) Jesus fasted for _____ days.
- (42) The concept of worship in Islam is very _____.
- (43) _____ is the sole purpose of the creation of man.
- (44) Juma prayer is offered in the _____ mosque.
- (45) There are _____ obligations of salah.
- (46) _____ is the first pillar of Islam.
- (47) _____ is the second pillar of Islam.
- (48) The _____ can be termed as the universal assembly of all Muslims.
- (49) The Kaaba is situated in _____.
- (50) The Muslims face the _____ to perform their prayers.
- (51) In Sikhism the worship place is called _____.
- (52) In Sikhism center of worship is _____.
- (53) In Sikhism the source of spirituality is _____.

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CLASS 9 MATRIC

Subject: Ethics

Worksheet No: 4-

Lesson No.4: Morals and values Greatness of God

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

1- In every era of history what questions were asked by philosophers and Scientists?

2- What is the concept of God in Semitic religions?

3- How the entire universe is running?

4- What did Paley say about God?

5- In divine religions, what is the base of their faith?

6- What did Prophets tell about god?

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CLASS 9 MATRIC

Subject: Ethics

Worksheet No: 5-

7- What is the concept of god in Hinduism?

8- What is the concept of god in Zoroaster's?

9- What is the concept of god in Buddhism?

10- What is the concept of God in Sikhism?

Lesson No.5: Places of worship

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

1- Who guided men for worship?

2- How the worship places come in existence?

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CLASS 9 MATRIC

Subject: Ethics

Worksheet No: 6-

3- What is concept of worship in Hinduism?

4- Name any 5 Hindu gods?

5- What is Kunbh Mela?

6- Which animals are considered sacred by the Hindus?

7- What is Vedanta?

8- What are the essential parts of Hindu worship?

9- What is Parkartma?

ST. MARY'S ACADEMY

CLASS 9 MATRIC

CLASS 9M

ISLAMIIYAT

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____

Section: _____

Subject: Islamiyat

(حصہ اول)

س ۱۔ ہر سوال کے دیئے گئے چار ممکنہ جوابات میں سے درست جواب کا انتخاب کیجئے۔

۱۔ افضل عمل اور افضل دعا ہے۔

۱۔ لا الہ الا اللہ ب۔ الاستغفار ج۔ الرحمن د۔ لا الہ الا اللہ۔ الاستغفار

۲۔ الہ کا معنی ہے۔

۱۔ محبوب ب۔ خدا ج۔ بت د۔ حکمران

۳۔ استغفار کا معنی ہے۔

۱۔ بخشش ب۔ بخشش طلب کرنا ج۔ بخش دینا د۔ معاف کرنا

۴۔ علم حاصل کرنا فرض ہے۔

۱۔ ہر مرد پر ب۔ ہر عورت پر ج۔ ہر مسلمان پر د۔ ہر انسان پر

۵۔ ترقی کے لیے ضروری ہے۔

۱۔ علم حاصل کرنا ب۔ کوشش ج۔ خوبصورتی د۔ سفر کرنا

۶۔ قرآن کا موضوع ہے۔

۱۔ آخرت ب۔ دنیا ج۔ حیوان د۔ انسان

۷۔ قرآنی تعلیمات کا تعلق ہے۔

۱۔ نماز سے ب۔ آخرت سے ج۔ جہاد سے د۔ زندگی کے تمام پہلوؤں سے

۸۔ اخروی نجات کے لیے عمل کرنا ضروری ہے۔

۱۔ تورات پر ب۔ زبور پر ج۔ قرآن پر د۔ انجیل پر

۹۔ قرآن مجید کی کبھی ہوئی آیات رکھ دی جاتی تھیں۔

۱۔ مسجد نبوی ﷺ میں ب۔ مسجد حرام میں ج۔ خانہ کعبہ میں د۔ مقام ابراہیم پر

۱۰۔ وہ کتاب ہے جس میں شک کا گزر نہیں۔

۱۔ تورات پر ب۔ زبور پر ج۔ انجیل پر د۔ قرآن پر

ST. MARY'S ACADEMY

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(حصہ دوم)

س ۲۔ مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں۔

۱۔ لفظ (اللہ) سے کیا مراد ہے؟

۲۔ بہترین دعا کیا ہے؟

۳۔ اللہ تعالیٰ کی نگاہ میں محبوب بننے کے لیے ہمیں کیا کرنا چاہیے؟

۴۔ فضیلت علم کے بارے میں ایک حدیث کا ترجمہ لکھیے۔

۵۔ علم کی اہمیت و ضرورت لکھیے۔

۶۔ تم میں سب سے اچھا کون ہے؟

۷۔ قرآن کی تعلیمات کی جامعیت لکھیے۔

۸۔ اللہ تعالیٰ نے انسان کی کس قسم کی ضروریات پوری کر دی ہیں۔

۹۔ عہد نبوی ﷺ میں حفاظت قرآن کا کیا اہتمام تھا؟

۱۰۔ قرآنی علام کی دو خصوصیات لکھیں۔

(حصہ سوم)

نوٹ۔ درج ذیل سوالات کے تفصیلی جوابات تحریر کریں۔

س ۳۔ حدیث ۱، ۲، ۳ کا ترجمہ اور تشریح تحریر کریں۔ نیز ان احادیث کا عملی زندگی سے تعلق بھی واضح کریں۔

س ۴۔ قرآن مجید کا تعارف بیان کریں۔

س ۵۔ قرآن مجید کی حفاظت کے بارے میں آپ کیا جانتے ہیں؟

س ۶۔ قرآن مجید کے فضائل پر نوٹ لکھیے۔

ST. MARY'S ACADEMY

CLASS 9 MATRIC

CLASS 9M

CHEMISTRY

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____ Section: _____

Subject: Chemistry

Worksheet for class 9th

There are work sheets for two weeks. Week 1 worksheet has been divided into five days. Solve it on loose sheet and draw diagrams with pen.

WEEK – 1 (Chapter 1-2)

Day 1.

1. Choose the correct option and encircle it.

- i. If molar mass of a compound is 90 g/mole the no of its moles containing 3.011×10^{23} molecules will be
 - a. 1.5
 - b. 3
 - c. 0.5
 - d. 4.5
- ii. A branch of chemistry in which some carbon compounds like carbonates , bicarbonates, carbon monoxide and carbon dioxide is studied is know as
 - a. Organic
 - b. environmental
 - c. analytical
 - d. inorganic

2. Give short answers.

- i. Define molecular mass and formula mass give one example of each.
 - ii. The atomic mass of copper is 63.5 g . Calculate the mass of 3.5 moles of it.
-

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Day 2.

1. Choose the correct option and encircle it.

i. which one is heterogenous mixture

- a. oil floating on water b. oxygen dissolved in water
- c. salt dissolved in water d. air

ii. How many molecules are present in 0.5 moles of Benzene. (C_6H_6)

- a. 2.011×10^{23} molecules b. 3.011×10^{23} molecules
- c. 5.011×10^{23} molecules d. 4.011×10^{23} molecules

2. Give short answers.

i. A table spoon of NaCl contains 12.5 g of it. Calculate the no of moles present in it.

ii. What is atom? Write the name of parts and particles of atom.

Day 3.

1. Choose the correct option and encircle it

i. The natural abundance of chlorine -35 is

- a. 25% b. 35%
- c. 45% d. 75%

ii. The largest number of molecules are present in

- a. 3.6g of water b. 4.8 g of sodim chloride
- c. 5g of carbondioxide d. 7.3 g of oxygen

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CLASS 9 MATRIC

2. Give short answers.

- Differentiate between compound and mixture.
 - Calculate the mass of 2×10^{25} molecules of sucrose ($C_{12}H_{22}O_{11}$).
-

Day 4.

1. Choose the correct option

- identify the no. of electron that f – subshell can accommodate.
a. 6 b. 10 c. 14 d. 2
- According to auf-bau principle identify the sub-shell which will be accommodated first
a. 2s b. 1s c. 3s d. 4s

2. Give short answers.

- What is heavy water? Give the comparison of ordinary and heavy water.
 - what is carbon dating? How dose carbon-14 dating works?
-

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Day 5

1. Choose the correct option and encircle it.

- i. Which of the following is a defect of Rutherford atomic model?
 - a. Electrons are negatively charged
 - b. Most of the mass is present in the nucleus
 - c. Electrons do not fall into the nucleus
 - d. Most of the space in the atom is empty
- ii. Which of the following radioactive isotope is used to find the obstructions and constrictions in blood flow?
 - a. I-131 b. Na-24 c. Co- 60 d. C-14

2. Give short answers.

- i. Make Bohr's models for the following elements
 - a. Potassium ${}_{19}\text{K}^{39}$ b. Silicon ${}_{14}\text{Si}^{28}$ c. Argon ${}_{18}\text{Ar}^{40}$
 - ii. Write two differences between isotopes of an element, also write names of isotopes of hydrogen and draw their Bohr's atomic model.
-

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CLASS 9 MATRIC

Worksheet # 2 (Chapter 3-4)

Day 1

1. Choose and encircle the correct option.

- i. The atomic radius of an atom ----- as one moves from top to bottom in a group of periodic table.
- a. decreases c. increases
- b. first decreases then increases d. remains same
- ii. Which of the following atom obeys duplet rule.
- a. O b. F c. N d. H

2. Give short answers.

- i. Choose the element in the following pairs whose atom you expect to have greater shielding effect. Give reason for your choice
- a. Be or Mg b. C or Si

Day 2

1. Choose and encircle the correct option.

- i. Which of the following group contains halogens.
a. VA b. VI A c. VIIA d. IA
- ii. The increase in ionization energy from left to right is due to
a. Decrease in nuclear charge
b. Increase in nuclear charge
c. Increase in shielding effect
d. Decrease in shielding effect

2. Give short answers.

- i. Write the valence shell electronic configuration of the following

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- a. Noble gases b. Halogens c. Alkali metals
- ii. Identify group and period of the following elements on the basis of their electronic configuration.
- a. ${}_5\text{B}^9$ b. ${}_{15}\text{P}^{31}$ c. ${}_{17}\text{Cl}^{35.5}$
-

Day 3

1. Choose and encircle the correct option.

- i. L- shell has sub-shells
- a. 1s,2s b. 2s,2p c. 3s,3p,3d d. 4s,4p,4d,4f
- ii. Which of the following compound is not having an ionic bond?
- a. NaCl b. MgO c. MgF_2 d. CO_2

2. Give short answers.

- i. Describe the formation of anion O^{-2} with the help of electronic configuration and electron dot structure. (O = at. No. 8)
- ii. Draw electron cross and dot structure for the following molecules. (N=7 , H=1 , S=16 C=6)
- a. NH_3 b. H_2S c. CH_4
-

Day 4

1. Choose and encircle the correct option .

- i. Which of the following molecule have double covalent bond.
- a. Cl_2 b. NH_3 c. N_2 d. O_2
- ii. The vertical columns of the periodic table are called -----
- a. Groups b. periods c. sub-group d. shells

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CLASS 9 MATRIC

2. Give short answers.

- i. Describe briefly the formation of Mg^{+2} and Na^{+1} cations.
 - ii. What is the difference in dipole- dipole interaction and hydrogen bonding . Give one example of each.
-

Day 5

1. Choose the correct option and encircle it .

- i. The ionic bond is formed by
 - a. Gain of electron only
 - b. By sharing electron
 - c. by loss of electron only
 - d. by gain and loss of electron
- ii. Which one of the following have polar covalent bond?
 - a. NaCl
 - b. H_2O
 - c. H_2
 - d. O_2

2. Give short answers.

- i. Define ionic bond. Show the formation of ionic bond between two atoms by gain and loss of 2 electrons.
 - ii. Define covalent bond. Show the formation of single , double and triple covalent bond between atoms.
-

ST. MARY'S ACADEMY

CLASS 9 MATRIC

CLASS 8M

BIOLOGY

ST. MARY'S ACADEMY

CLASS 9 MATRIC

Name: _____ Section: _____

Subject: *Biology*

WORK SHEET

CHAPTER NO 1 TO CHAPTER NO 4

BIOLOGY

GRADE -9

INSTRUCTIONS:

- READ THE TOPIC /PAGES MENTIONED THOROUGHLY
- READ THE SIDE BOX
- CONCENTRATE THE TERMINOLOGY GIVEN BOLD IN THE TEXT
- OBSERVE THE FIGURE/DIAGRAM RELATED TO THE TOPIC
- FOR EACH WORK SHEET TIME LIMIT IS 40 MINUTE

ST. MARY'S ACADEMY

CLASS 9 MATRIC

BIOLOGY-IX Work Sheet-1 (chapter # 1 page#2, 3)

Instructions: read the page # 2 and 3 and then answer the following.

Multiple choice questions:

- i) -----study of form and structure of living organism
a) Anatomy b) physiology c) morphology d) histology
- ii) -----study structure and function of cell and cell organelles.
a) Anatomy b) physiology c) cell biology d) histology
- iii) Study of interaction between organism and their environment is called--

a) socio- biology b) taxonomy c) parasitology d) environmental biology
- iv) study of fossils is called -----
a) paleontology b) physiology c) histology d) cytology
- v) study of insect is called -----
a) immunology b) parasitology c) entomology d) anatomy

Short answers:

- i) Name and define three major division of Biology-----

- ii) What are the major biological issues of today? -----

- iii) Differentiate cell biology and histology-----

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CLASS 9 MATRIC

- -----
- iv) Define genetics and inheritance-----

- v) Differentiate parasite and parasitology-----

- vi) Name and define branch of biology you like the most? -----

BIOLOGY-IX Work Sheet-2 (chapter # 1 page#4-5)

Instructions: read the page # 4 and 5 and then answer the following.

Multiple choice questions:

- i) Study of biological processes using mathematical technique is called-----

a) Biometry b) bio economics c) biophysics d) a&b
- ii) Similarities between working principles of lever and limbs of human is studied in-----
a) Biometry b) bio economics c) biophysics d) a&b
- iii) Calculation of cost value and profit value of animal and plants study in---

a) Biometry b) bio economics c) biophysics d) a&b

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CLASS 9 MATRIC

- iv) Liver transplantation is the study-----
a) Medicine b) surgery c) physiology d) anatomy
- v) Profession which deals with the art of gardening-----
a) Farming b) horticulture c) physiology d) agriculture

Short answers:

- i) Define explain term biochemistry-----

- ii) How biotechnology and bioeconomics help to the mankind? -----

- iii) Differentiate agriculture and horticulture-----

- iv) Define biogeography -----

- v) Differentiate farming and forestry-----

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vi) Name and define career in biology you like the most? -----

BIOLOGY-IX Work Sheet-3 (chapter # 1 page#6-7)

Instructions: read the page # 6 and 7 and then answer the following.

Multiple choice questions:

- i) -----book written by bu ali sina
a) Al haywan b) al wahoosh c) al qanun fil tib d)khalq al insan
- ii) Number of natural elements-----
a) 62 b) 82 c) 72 d) 92
- iii) -----is not the major bio element
a) Potassium b) phosphorus c) hydrogen d) oxygen
- iv) -----is not micro molecule.
a) Starch b) water c) glucose d) a&b
- v) -----is not macro molecule.
a) Starch b) protein c) lipids d) glucose

Short answers:

i)Give translation of a verse on the creation of human being-----

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CLASS 9 MATRIC

ii) Describe the contribution of Abdul Malik asmai-----

iii) name and define bio elements -----

iv) Differentiate : macromolecule & micro molecule -----

v)who was bu ali sina?-----

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CLASS 9 MATRIC

BIOLOGY-IX Work Sheet-4(chapter # 1 page#8-10)

Instructions: read the page # 8-10 and then answer the following.

Multiple choice questions:

- i) There are -----level of organization.
a) 5 b) 7 c) 9 d) 11
- ii)) Human population in Pakistan in 2010 comprises of -----million.
a) 153.5 b) 163.5 c) 173.5 d) 183.5
- iii) Protein synthesis done by -----
a) Mitochondria b) nucleus c) ribosome d) Golgi bodies
- iv) Epithelial tissue of -----secrete gastric juice for the digestion of -----
-
a) Intestine, lipids b) intestine, protein c) stomach, lipids d) stomach, protein.
- v) More than one type of tissue having related function organized to make -----
a) Muscular tissue b) organ c) individual d) all

Short answers:

i)give the function of mitochondria and ribosome -----

ii) enlist at least two examples of plant and animal tissue-----

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iii) differentiate between organ and organ level system -----

iv) Differentiate between atomic and molecular level -----

v) Define community-----

BIOLOGY-IX Work Sheet-5(chapter # 1 page#10-13)

Instructions: read the page #10-13 and then answer the following.

Multiple choice questions:

- i) Scientific name of frog -----
a) Rana Tigrina b) rana tigrina c) rana Tigrina d) Rana tigrina

ST. MARY'S ACADEMY

CLASS 9 MATRIC

- ii) Correct Scientific name of mustard plant -----
a) Brassica compastris b) brassica campestris c) Brassica
campestris d) Brassica Campestris
- iii) mustard plant produces seed at the end of -----
a) Winter b) summer c) autumn d) spring
- iv) -----do not have any type of division of labor.
a) Brassica b) frog c) Volvox d) none of these
- v) Frog belong to-----level of cellular organization.
a) Unicellular b) multicellular c) colonial d)

Short answers:

- i) Name five major groups of organism-----

- ii) Describe unicellular organization-----

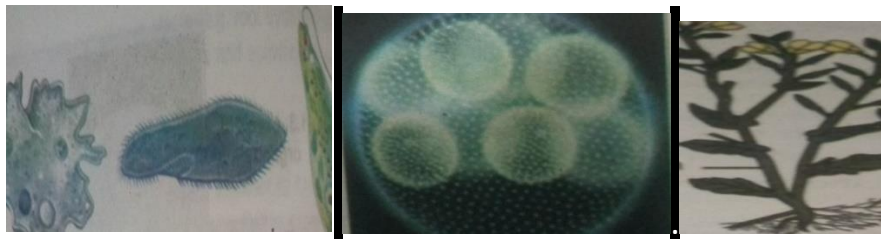
- iii) How colonial organization differ from multicellular organization-----

- iv) Differentiate between vegetative and reproductive parts of brassica
campestris-----

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- v) Place the following specimen according to cellular organization and give one difference between them



BIOLOGY-IX Work Sheet-1 (chapter # 2 page#20-22)

Instructions: read the page # 20-22 and then answer the following.

Multiple choice questions:

- i) Logical consequence drawn from hypothesis.....
a) Observation b) deduction c) experimentation d) result
- ii) -----not relevant to quantitative observation.
a) Variable b) more accurate c) measureable d) a&b
- iii) 1 litre of ethanol equal to-----gram.
a) 798 b) 789 c) 787 d) 879
- iv) Reasoning is used in -----
- v) Observation b) deduction c) experimentation d) hypothesis

Short answers:

- i) Why man has always been a biologist? -----

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CLASS 9 MATRIC

- ii) Define biological problem and enlist steps for solving biological problem.

[illegible]

- iii) Differentiate quantitative and qualitative observations-----

[illegible]

- iv) Name the five senses used for recognizing biological problem or observation. -----

[illegible]

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BIOLOGY-IX Work Sheet-2 (chapter # 2 page#22-23)

Instructions: read the page # 22-23 and then answer the following.

Multiple choice questions:

- i) Most basic step of biological method is-----
a) Recognition b) deduction c) experimentation d) b&c
- ii) First step of biological method -----
a) Recognition b) deduction c) experimentation d) observation
- iii) -----allows other people to apply the knowledge to solve other problems.
a) hypothesis b) reporting c) experimentation d) observation
- iv) A great deal of careful thinking is necessary for -----
a) hypothesis b) deduction c) experimentation d) b&c
- v) -----involves the use of "if-then "logic.
a) hypothesis b) deduction c) experimentation d) reporting

Short answers:

- i) Explain the importance of reporting results-----

- ii) Differentiate experimental and control group-----

- iii) What is meant by summarization of results? -----

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- iv) Define experimental group and describe how it differ from control group? -----

BIOLOGY-IX Work Sheet-3(chapter # 2 (Malaria)

Instructions: read thoroughly type example MALARIA and then answer the following.

Multiple choice questions:

- i) The word malaria come from -----language.
a) Greek b) Persian c) Latin d) English
- ii) Plasmodium was discovered in -----.
a) 1878 b) 1876 c) 1874 d) 1872
- iii) Plasmodium is the cause of malaria , is -----
a) Hypothesis b) deduction c) result d) observation
- iv) Which organism can get plasmodium by biting a malarial patient-----
-
a) Female anopheles b) culex c) a & b d) none of these
- v) -----transmit dengue fever
a) Culex b) anopheles c) aedes d) a & c
- vi) -----spread malaria in birds.
a) Culex b) anopheles c) aedes d) a & c
- vii) Italian biologist allowed infected anopheles mosquito to bite healthy man in-----
a) 1892 b) 1894 c) 1896 d)1898

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BIOLOGY-IX Work Sheet-4(chapter # 2 page #26-28)

Instructions: read page #26-28 and then answer the following.

Multiple choice questions:

- i) Quality of experiment is ensured by-----
a) Data organization b) data analysis c) data d) hypothesis
- ii) Summarization of data through the calculation of mean value-----
a) Ratio b) proportion c) statistics d) data analysis
- iii) Ratio is expressed by putting a -----mark between the two ratios.
a) Colon b) division c) equality d) a&b
- iv) -----keeps on suggesting new hypothesis and so testing goes on .
a) Law b) theory c) productive theory d) principle
- v) -----refer to the computational & statistical techniques for the analysis of -----
a) Data analysis b) data organization c) statistics d) bioinformatics

Short answers:

- i) Define : a) data -----

- b) Ratio -----

- c) Proportion-----

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- ii) Enlist the ways of data organization-----

- iii) How you describe that mathematics is an integral part of scientific processes. -----

- iv) Define bioinformatics and also describe how statistics help in biological method for solving a biological problem-----

- v) Define : a) incubation period-----

- b) Deduction-----

- c) Scientific law-----

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d) Theory-----

BIOLOGY-IX Work Sheet-1 (chapter # 3 page#31- 35)

Instructions: read the page # 31-35 and then answer the following.

Multiple choice questions:

- i) Method by which biologist divide organism into groups and sub groups is called-----
a) Classification b) biological classification c) taxonomy d) systematics
- ii) Types of animal known to biologist are -----million.
a) 0.5 b) 1.5 c) 2.0 d) 2.5
- iii) Types of plants known to biologist are -----million.
b) 0.5 b) 1.5 c) 2.0 d) 2.5
- iv) Biodiversity is richest in -----
a) Temperate region b) tropics c) polar region d) forests
- v) Species that are in same -----are more closely related than--

a) Class—order b) family—genus c) order—class d) phylum—class

Short answers:

i) Describe Biodiversity under following headings: a) definition-----

b) distribution-----

c) evolution-----

ii) what are the aims of classification?-----

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iii) Define classification .describe basis of classification.-----

iv) Differentiate : systematics -----

-----&

Taxonomy-----

v) Give scientific name and classification of the following: a) Human-----

-----b) Pea-----

-----vi) Define taxonomic hierarchy and

enlist taxa of hierarch -----

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BIOLOGY-IX Work Sheet-2 (chapter # 3 page#36- 38)

Instructions: read the page # 36-38 and then answer the following.

Multiple choice questions:

- i) Aristotle 's book de Anima was translated by-----
a) Aristotle b) abu-usman umar Aljahiz c) ibn rushd d) john ray
- ii) Which rank not used by carolus Linnaeus in his classification system-----

a) Class b) order c) family d) genus
- iii) Robert Whittaker introduced five kingdom classification system in-----

a) 1866 b) 1937 c) 1967 d) 1979
- iv) Prokaryotic cell are only found in kingdom-----
a) Protocista b) monera c) fungi d) plantae
- v) -----introduced the taxa of "class "and "species"
a) John ray b) Augustus Rivinus c) Tournefort d) Andrea
Caesalpino

Short answers:

- i) Describe contribution of carolus Linnaeus in developing biological classification system -----

- ii) Why fungi placed in separate kingdom?-----

- iii) Give the draw backs of two kingdom classification system -----

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- -----

- iv) Describe the contribution of Ernst Hackel in history of biological classification system-----

- v) Give the basis of five kingdom classification system-----

- vi) How algae resemble to plant and how they differ from them(plant)-----

BIOLOGY-IX Work Sheet-3 (chapter # 3 page# 39--41)

Instructions: read the page # 39-41 and then answer the following.

Multiple choice questions:

- i) Scientific name of onion-----
a) Allium Cepa b) allium cepa c) allium Cepa d) *Allium cepa*
- ii) Viruses are assigned to kingdom-----
a) Protocista b) Monera c) Animalia d) none of these
- iii) In binomial nomenclature first letter of -----is not capitalized.
a) Family b) class c) species d) genus

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- iv) More than-----people added to world population each day.
a) 26000 b) 16000 c) 260,000 d) 160,000
- v) In developing countries -----billion people rely on wood for heating and cooking.
a) 1 billion b) 2 billion c) 3 billion d) 4 billion
- vi) ----- are composed of only protein.
a) Viroids b) prion c) bacteria d) all
- vii) Known causes of species extinction because of hunting is-----%.
a) 17% b) 19% c) 21% d) 23%

Short answers:

- i) Why viruses are considered acellular ?-----

- ii) Differentiate prion and viroids-----

- iii) Describe binomial nomenclature under following headings: a) definition-

- b) Rules-----

- c) Significance-----

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- -----
- iv) What is meant by "conservation of Biodiversity"?-----

- v) Define : a) extinct species-----

b) Endangered species-----

- vi) Give scientific name of : a) onion -----
-----b)star fish-----
-----c)house crow-----

BIOLOGY-IX Work Sheet-4 (chapter # 3 page# 41-44)

Instructions: read the page # 41-44 and then answer the following.

Multiple choice questions:

- i) Cloud formation is decreased by -----
a) Urbanization b) soil erosion c) deforestation d) a&b
- ii) More than -----people added to world population each minute.
a) 160 b) 180 c) 200 d) 220
- iii) Close canopy forests of KPK are shrinking at approximately -----per year.
a) 1% b) 2% c) 3% d) 4%
- iv) Largest chilghoza forest in the world is located at-----
a) Himalayan b) palas valley c) KPK d)Suleiman range

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- v) Pakistan signed UN "CCD" project in-----
a) 1993 b)1995 c)1997 d)1991

Short answers:

- i) Define deforestation .also describe how deforestation affects the biodiversity?-----

- ii) Give three causes of deforestation-----

- iii) Give three effects of deforestation on biodiversity and human's life -----

- iv) In figure below one of the effect of deforestation shown to you, describe how this effect our ecosystem?



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BIOLOGY-IX Work Sheet-5 (chapter # 3 page# 44-47)

Instructions: read the page # 44-47 and then answer the following.

Multiple choice questions

- i) Northern areas of Pakistan provide habitat to
a) Tiger b) lion c) snow leopard d) Asiatic cheetah
- ii) -----not found in northern areas of Pakistan.
a) Brown bear b) astore markhore c) Himalayan ibex d) hangul
- iii) Marcopolo sheep are mostly found in-----
a) Hazarangi national park b) khunjerab national park c) cholistan d) palas valley
- iv) National bird of Pakistan -----
a) Chakor b) pigeon c) Houbara bustard d) green parrot
- v) According to WWF-P ----- Indus Dolphin are left in the Indus River.
a) 500 b) 600 c) 400 d) 700

Short answers:

i) What steps are taken for the conservation of chiltan markhore.-----

ii) Enlist the name of wildlife species present in northern areas of Pakistan-----

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iii) Houbara bustard, Indus dolphin and Marcopolo sheep has become endangered. Give reasons?-----

BIOLOGY-IX Work Sheet-1 (chapter # 4 page# 52-56)

Instructions: read the page # 52-56 and then answer the following.

Multiple choice questions

- i) Zacharias Janssen developed first compound microscope in-----
a) 1595 b)1590 c) 1585 d) 1580
- ii) Resolution of human eye-----
a) 0.5 mm b)0.1mm c)0.05mm d)0.01mm
- iii) In 1831 nucleus was discovered by -----
a) Robert hook b) Robert Brown c) Robert Koch d) Robert Neil
- iv) Resolution of electron microscope-----
a) 0.2 mm b)0.2nm c)0.01mm d)0.01nm
- v) Internal cell structure can be studied by -----
a) LM b) EM c) SEM d)TEM

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Short answers:

- i) Differentiate: magnification and resolution: -----

- ii) Give three differences between TEM & SEM-----

- iii) Describe the contribution of different scientist in formulation of cell theory-----

- iv) What are the main principles/postulates of cell theory-----

- v) Define and describe sub cellular/acellular particles with example-----

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BIOLOGY-IX Work Sheet-2 (chapter # 4 page#57-62)

Instructions: read the page # 57-62 and then answer the following.

Multiple choice questions

- i) Which one of the following is not an organelle?
a) Centriole b) vacuole c) cell membrane d) ribosome
- ii) Prokaryotic cell wall is composed of -----
a) Chitin b) lignin c) cellulose d) peptidoglycan
- iii) Biochemical reaction take place in-----
a) Cell b) cell membrane c) nucleus d) cytoplasm
- iv) -----is the energy production house of the cell.
a) Ribosome b) nucleus c) mitochondria d) nucleolus
- v) Ribosomal RNA form in -----
a) Nucleus b) ribosomes c) mitochondria d) nucleolus

Short answers:

- i) Name cell structure and give their function:-----

- ii) Differentiate between :a)primary cell wall & secondary cell wall-----

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- iii) Define :a) cell membrane -----

b) Plasma membrane -----

c) Plasmodesmata-----

- iv) Give the function of cytoplasm-----

- v)

BIOLOGY-IX Work Sheet-3 (chapter # 4 page#62-65)

Instructions: read the page # 62-65 and then answer the following.

Multiple choice questions:

- i) -----are colorless and store starch, protein and lipids.
a) Chloroplast b) chromoplast c) leucoplast d) a&b
- ii) -----detoxify the harmful chemicals.
a) SER b) RER c) lysosome d) a&b
- iii) -----made of triplet of nine microtubule.
a) Cilia b) microfilament c) centriole d)a&b
- iv) Membrane of the vacuole is called-----
a) Unit membrane b) plasma membrane c) tonoplast d) a&c
- v) Camillo Golgi discovered set of flattened sacs called -----
a) Cristae b) cisternae c) matrix d) a&b

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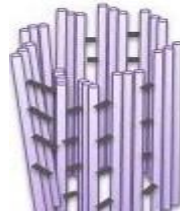
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Short answers:

- i) Name and give function of the following:



a)



b)

- ii) Differentiate : SER & RER: -----

- iii) Describe formation and function of lysosome. -----

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BIOLOGY-IX Work Sheet-4 (chapter # 4 page#66-68)

Instructions: read the page # 66-68 and then answer the following.

Multiple choice questions:

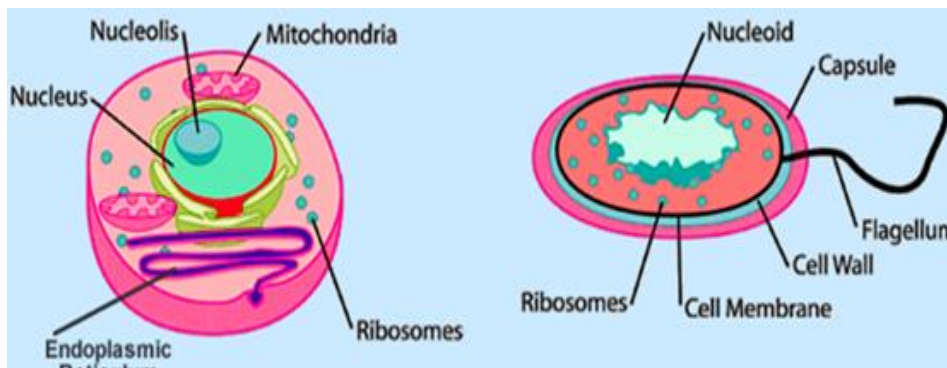
- i) The smallest cells are bacteria called -----
a) Mycoplasma b) phycoplasma c) sarcoplasma d) a&b
- ii) Human body made up of about -----type of cells.
a) 100 b) 1000 c) 200 d) 2000
- iii) Eukaryotic cell on average -----time larger than prokaryotic cell
a) Five times b) 10 times c) 15 times d) 20 times
- iv) Human RBCs are only-----micrometer in diameter.
a) 2 b) 4 c) 6 d) 8
- v) Need of nutrient and rate of waste are directly proportional to-----

a) Cell size b) cell volume c) cell membrane thickness d) all

Short answers:

- i) How the cell size and surface area to volume ratio affect the cell's activity.-----

- ii) Figure shows prokaryotic and eukaryotic cell, give three differences between them:



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-
-
-
-
-
-
- iii) Describe "cell as open system". -----
-
-
-
-
-
-
-
-
- iv) Describe relationship between cell function and structure with examples-----
-
-
-
-
-
-
-
-

BIOLOGY-IX Work Sheet-5 (chapter # 4 page#69-73)

Instructions: read the page # 69-73 and then answer the following.

Multiple choice questions:

- i) The movement against concentration gradient requires energy in form of-----
- a) ATP b) ADP c) AMP d)all

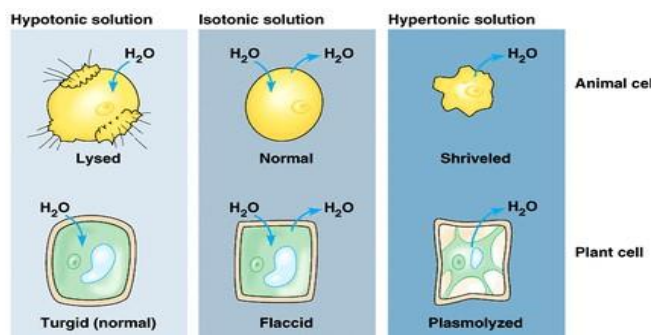
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- ii) The solution that has relatively high /more solute-----
a) Isotonic b) hypotonic c) hypertonic d) a &b
- iii) The solution that has relatively high /more solute-----
a) Isotonic b) hypotonic c) hypertonic d) a &b
- iv) Shrinkage of cytoplasm is -----
a) Plasmolysis b) deplasmolysis c) a&b d) phagocytosis
- v) Process of ingestion of bulky material is called -----
a) Exocytosis b) endocytosis c) phagocytosis d) pinocytosis

Short answers:

ii) describe the effect of tonicity on animal and plant cell



- i) Define : active transport-----
-
-
-
- Turgor pressure-----
-
-
-

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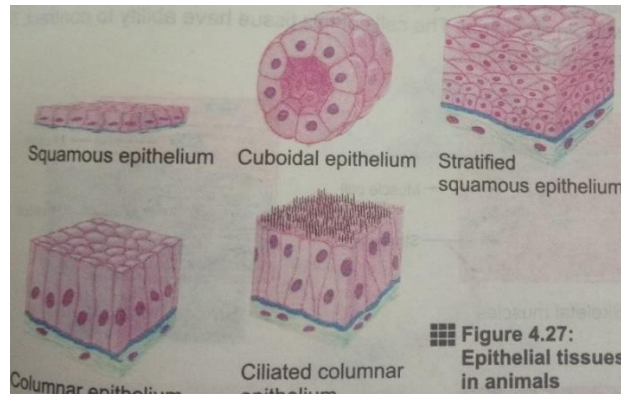
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-----Endocytosis-----

BIOLOGY-IX Work Sheet-5 (chapter # 4 page#74-82)

Instructions: read the page # 74-82 and then answer the following.

- i) Give function and location of the following epithelial tissue



- ii) Identify the following type of plant and animal tissue ,also give their function:

a))



b)



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a) -----

b) -----

c) -----

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CLASS 9M

PHYSICS

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CLASS 9 MATRIC

Name: _____

Section: _____

Subject: Physics

Worksheet # 1

- **Choose the correct option:**

1. Two equal but like parallel forces having different line of action produce:

a) Torque b) a couple c) equilibrium d) Neutral Equilibrium

2. Which of the following is the unit of moment Arm?

a) Pascal b) metre c) Newton meter d) watt

3. A force of 10 N is making an angle of 30 with horizontal component will be:

a) 4 N b) 5 N c) 7 N d) 8.7 N

4. A body is in equilibrium when its:

a) Acceleration is uniform b) speed is uniform

c) Speed & acceleration d) acceleration is zero

- Give short answer of the following questions:

- Find out the mass of earth by using gravitational law?
- How can you say that gravitational force is a field force?
- At what altitude the value of g would become one forth than on earth surface?

- **Answer the following questions in detail:**

1. (a) what is resolution of forces? Find the perpendicular components, direction & magnitude of a force.

(b) Think of a body which is at rest but not in equilibrium.

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Name: _____

Section: _____

Subject: *Physics*

Worksheet # 2-

- Choose the correct option:

1. The height of geostationary satellite is:

- a) 42,300 km b) 42,800 km c) 42,000 km d) 43,000 km

2. A Moon is nearly away from the earth:

- a) 38,000 km b) 380,000 km c) 34,000 km d) 639,900 km

3. Moon completes its one revolution around the earth:

- a) 27.3 days b) 28 days c) 29 days d) 30 days

4. The value of g at a height one Earth's radius above the surface of earth:

- a) $2g$ b) $\frac{1}{2}g$ c) $\frac{1}{3}g$ d) $\frac{1}{4}g$

- Give short questions of the following questions:

- Find the magnitude & direction of force if its x-component is 12 N & y-component is 5 N.
- How many conditions of equilibrium. Define them.
- Define moment of force, center of gravity, center of mass.

- Answer the following question in detail:

- (a) Find out the orbital speed of artificial satellites? What are artificial satellites?
- (b) Calculate the value of g the acceleration due to gravity at an altitude 1000km. The mass of the earth is 6.0×10^{24} kg. The radius of the earth is 6400 km.

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CLASS 9 MATRIC

CLASS 9M COMPUTER

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CLASS 9 MATRIC

Name: _____ Section: _____

Subject: Computer

Week -1

Q: Encircle the correct option.

I . -----was used introduced in first generation of computer.

- | | |
|----------------|----------------------------|
| A . Transistor | b. Vacuum tubes |
| c. Processor | d. Artificial intelligence |

ii. Who invented logarithm?

- | | |
|-------------------|---------------------|
| A . Blaise pascal | b. Charles babbage |
| c. John Napier | d. Hermon Hollerith |

iii. Fifth generation computer are based on:

- | | |
|--------------|----------------------------|
| a . IC chips | b. Artificial intelligence |
| c. GUI | d. Transistors |

iv. Device driver is a type of ----- software.

- | | |
|-----------------|-----------------|
| A . Application | b. Productivity |
| c. System | d. Application |

v. Which of the following is the fastest memory?

- | | |
|---------------------|----------|
| A . USB flash drive | b. RAM |
| c. ROM | d. Cache |

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Q: Write short answers of the following questions.

I . Describe Napier bone:

Ans: -----

ii. Who invented Mark-1. Describe the working of Mark-1.

Ans: -----

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CLASS 9 MATRIC

iii. Compare 1st and 3rd generation computers:

Ans: -----

iv. What is meant by cloud computing?

Ans: -----

v. Differentiate between digital and analog Computers.

Ans: -----

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vi. How a student can use computer to improve academic performance?

Ans: -----

vii. Describe hybrid computer:

Ans: -----

viii. Write different features of Super Computer.

Ans: -----

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ix. Give any 3 uses of Computer in School library.

Ans: -----

x. As a Student, Why you select Computer Science as a subject in 9th Class?

Ans: -----

Q: Write detail note on following questions.

I . Write a note on classification of digital computer.

ii. Describe all the five generation of Computers.

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Week -2

Q: Encircle the correct option.

I . When Were IC Chips developed?

A . Early 1960s

b . Early 1970s

c. 1980

d. 1990

ii. Which technology was used in 2nd generation computers?A .

Transistor

b. Vacuum tubes

c. IC chips

d. Processor

ii. Which of the following Computer supports thousands of users at the same time?

a . Microcomputer

b. Minicomputer

c. Mainframe computer

d. Laptop

iv. Fourth generation Computers started from:

a . 1969

b. 1970

c. 1971

d. 1972

v. Which of the following is volatile memory?

A . RAM

b. ROM

c. USB flash drive

d. Hard disk

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CLASS 9 MATRIC

Q: Write short answers of the following questions.

I . Write role of Computer in field of EDUCATION.

Ans: -----

ii . Write some ways in which computer technology helps in the field of BUSINESS.

Ans: -----

5.Ahmed, A class ix student is asking his father to replace his home computer CRT monitor with LCD monitor. How will you justify his demand?

Ans: -----

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iv. Define INPUT and OUTPUT. Write few names of input and output devices.

Ans: -----

v. What is scanner? How it works?

Ans: -----

vi. Describe Motherboard.

Ans: -----

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vii. Define Digital Camera and Touch Screen.

Ans: -----

viii. What is ALU? What operations are performed by ALU?

Ans: -----

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ix. What is keyboard? Write about different important keys on keyboard.

Ans: -----

x. Write some features of Difference Engine and Analytical engine.

Ans: -----

Q: Write detail answer of the following questions.

i . Briefly describe different careers in INFORMATION TECHNOLOGY (IT).

ii. Write the use of Computer in the field of Defense, Media and Manufacturing.