

ST. MARY'S ACADEMY

CLASS 8

CLASS 8

Pak. Studies

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_ Section: \_\_\_\_\_

Subject: Pak. Studies **Assessment No.1** Total Marks: 15

**Q. 1 Fill in the blanks. (6)**

(For the sake of learning and better understanding fill in the blanks instead of MCQ's)

- i. The fight of freedom was fought in \_\_\_\_\_.
- ii. The word Pakistan was coined by \_\_\_\_\_.
- iii. Namaz is the \_\_\_\_\_ pillar of Islam.
- iv. Pakistan Resolution was passed on \_\_\_\_\_.
- v. Allama Iqbal awakened the Muslims through his \_\_\_\_\_.
- vi. The State Bank of Pakistan was inaugurated on \_\_\_\_\_.

**Q. 2: Write the short answers. (9)**

- i. What is ideology in the words of George Brass?
- ii. What did Quaid-e-Azam say about the security of minorities?
- iii. What is the remarkable event of 20<sup>th</sup> Century?

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## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Pak. Studies

Worksheet No.2

### Chapter No. 1 The Ideological Basis of Pakistan

Topic: Economics Deprivation of the Muslims in India

#### Week-3

##### Day - I

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

1. The Muslims were oppressed after the \_\_\_\_\_.
2. On the bases of Two Nation Theory \_\_\_\_\_ and \_\_\_\_\_ states came into being in the Subcontinent.
3. The Muslim Traders suffered \_\_\_\_\_ crises.
4. The Muslim became \_\_\_\_\_ instead of owner of the land.
5. The British Rulers dismissed all the Muslims form \_\_\_\_\_.

Topic: Two Nation Theory: Origin, Evolution and Explication

##### Day - II

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

1. Hindi Urdu controversy starts in \_\_\_\_\_.
2. \_\_\_\_\_ was the first person who used the term "Two Nation Theory".
3. \_\_\_\_\_ gave the idea of a separate state for the Muslims.
4. Quaid-e-Azam was a firm \_\_\_\_\_ of Two Nation Theory.

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5. Pakistan Resolution was presented on \_\_\_\_\_.
6. In the pamphlet \_\_\_\_\_ Chaudhry Rehmat Ali named the Muslim state as Pakistan.

### Topic: The Ideology of Pakistan and Allama Iqbal

#### Day - III

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

1. Allama Iqbal awakened the Muslims through his \_\_\_\_\_.
2. In the beginning, Allama Iqbal was a staunch supporter of the unity of \_\_\_\_\_.
3. Allama Iqbal gave the idea of a separate state for the Muslims of \_\_\_\_\_.
4. Allama Iqbal address at Allahabad in \_\_\_\_\_.
5. Allama Iqbal presented the key concept of the basis of Muslim \_\_\_\_\_.

### Topic: The Ideology of Pakistan and Quaid-e-Azam

#### Day - IV

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

1. Quaid-e-Azam addressed in the session of All India Muslim League in 1943 at \_\_\_\_\_.
2. In March 1944 Quaid-e-Azam Addressed to \_\_\_\_\_.
3. Quaid-e-Azam addressed the officers of the government in Karachi on \_\_\_\_\_.
4. On 21<sup>st</sup> March 1948, Quaid-e-Azam addressed to the people of \_\_\_\_\_.
5. State Bank of Pakistan was inaugurated on \_\_\_\_\_.

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### Key Words:

- |                                |                                |
|--------------------------------|--------------------------------|
| 1. Pakistan , India            | 13. Poetry                     |
| 2. War of Independence         | 14. Millat                     |
| 3. Economics                   | 15. 1 <sup>st</sup> July, 1948 |
| 4. Tenant Cultivation          | 16. Dhaka                      |
| 5. Government jobs             | 17. Karachi                    |
| 6. Sir Syed Ahmad Khan         | 18. 11 <sup>th</sup> Oct 1947  |
| 7. 1867                        | 19. Students                   |
| 8. Dr. Allama Iqbal            | 20. Allahabad                  |
| 9. 23 <sup>rd</sup> March 1940 | 21. 1930                       |
| 10. Now or Never               |                                |
| 11. Hindu-Muslim               |                                |
| 12. Advocate                   |                                |

### Topic: Economics Deprivation of the Muslims in India

#### Week-4

#### Day -I

(Note: Read thrice, understand and rewrite the following questions)

**Q1. How did Sir Syed Ahmed Khan depict the miserable condition of the Muslims after the War of Independence 1857?**

**A.** Sir Syed has depicted the miserable condition of the Muslims in the following words:

"No calamity has descended from heaven that had not searched the house of the Muslims before it came down to the earth."

**Q2. What was the economic condition of the Muslims of Sub-continent after the War of Independence?**

**A.** The British, dominated by prejudice and enmity. They dismissed all the Muslims from government jobs especially from Army and shut the doors of employment to the Muslims. Despite having the required qualification for some jobs, the Muslims were deprived of it. The Muslims were deprived of their properties. The cottage industry of

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Muslims collapsed. The export of the Indian goods was affected and millions of Muslims suffered unemployment.

### Topic: Two Nation Theory: Origin, Evolution and Explication

#### Day – II

(Note: Read thrice, understand and rewrite the following questions)

**Q3. When did Sir Syed Ahmed Khan use the term "Two-Nation Theory" and why?**

**A.** Sir Syed Ahmed Khan was the first person who used the term "Two-Nation Theory" due to Urdu Hindi controversy in Banaras in 1867.

**Q4. What was the opinion of Chaudhary Rehmat Ali about the nationality of the Muslims?**

**A.** Chaudhary Rehmat Ali was of the opinion that the Muslims possess the history and civilization of their own and on the basis of these two, their nationality is not Hindustani but Pakistani. He believed that the Muslims are a nation that is different from other nations living in India.

### Topic: The Ideology of Pakistan and Allama Iqbal

#### Day – III

(Note: Read thrice, understand and rewrite the following questions)

**Q5. Why did Allama Muhammad Iqbal demand the separate state for the Muslims in his famous Allahabad Address in 1930?**

**A.** In his famous presidential address at Allahabad in 1930, he demanded a separate state for the Muslims so that they might lead their lives in accordance with their religion and culture.

**Q6. How did Allama Iqbal advise the Muslims to adopt every aspect of religion and to break the idols of colour and creed?**

**A.** He advised the Muslims to adopt every aspect of religion and to break the idols of colour and creed and absorb yourself into one nation so Turani, Irani or Afghani (Regional states of the Muslims) may lose their existence.

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**Q7. How did Allama Iqbal give the lesson of unity to the Muslim Millat?**

**A.** Allama Iqbal was of the view that the Muslims due to Islam form a Millat and their power and strength depends only on Islam. In his poetry, he presented the key concept of the basis of Muslims Millat.

**Topic: The Ideology of Pakistan and Quaid-e-Azam**

**Day – IV**

(Note: Read thrice, understand and rewrite the following questions)

**Q8. What did Quaid-e-Azam say in the session of All India Muslim League at Karachi in 1943?**

**A.** In the session of All India Muslim League at Karachi in 1943, he said: "What relationships knit the Muslims into one whole, which is the formidable rock on which the Muslim edifice has been erected, which is the sheet anchor providing basis to the Muslim Millat. The relationship, the sheet anchor and the rock is Holy Qura'an.

**Q9. What did Quaid-e-Azam say while addressing the students in March 1944?**

**A.** While addressing the students in March 1944, Quaid-e-Azam said: "Islam is our guide and it is the complete code of life."

**Q10. What did Quaid-e-Azam say in his Aligarh address?**

**A.** Addressing at Aligarh Quaid-e-Azam said, -"What was the motive of demand for Pakistan and what was the reason of separate state for the Muslims? Why was the need to divide India felt? Its reason is neither narrow mindedness of the Hindus nor tactics of the British. It is the fundamental demand of Islam".

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# CLASS 8

# Chemistry

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Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Chemistry

Assessment No.1

Total Marks: 25

**Q 1. Give brief answer of the following Questions.**

**3x5= (15)**

- What are Ions? Differentiate between Cation and Anion.
- What is a mixture? Differentiate between homogenous and heterogeneous mixture.
- What is meant by Atomic Number?
- What is the mass number of an atom that has 11 protons and 13 neutrons?
- Write down the symbol of the following atoms.
  - Boron
  - Calcium
  - Phosphorus

**Q 2: Fill in the blank with appropriate words.**

**(5)**

- A ----- is the smallest particle of an element or a compound that can exist by itself.
- Atomic number of Na is \_\_\_\_\_.
- A compound with chemical formula  $\text{Na}_2\text{CO}_3$  has formula mass 106 amu. Atomic mass of the element O is \_\_\_\_\_.
- The chemical formula of Sodium Chloride is -----
- Burning of paper is a ----- change.

**Q 3. Choose the correct option.**

**(5)**

- The Symbol for Potassium element is
  - K
  - S
  - Na
  - P
- F symbol stands for the element
  - Ferric
  - Phosphorus
  - Fluorine
  - Nitrogen
- In a chemical reaction Al losses how many electrons;
  - 1
  - 2
  - 3
  - 4
- In which type of change a new substance is formed
  - Physical change
  - chemical change
  - Nuclear change
  - climate change
- Atomic number of the oxygen is
  - 1
  - 2
  - 6
  - 4

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## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Chemistry

Worksheet No: 2

### FUNDAMENTALS OF CHEMISTRY

**Week: 3**

**Day: 1**

**Q.1. Answer the following questions?**

1. Define mass.
2. Define weight.
3. Define matter. Give examples.
4. Define elements. Give examples.
6. Define compound. Give examples

**Q.2. Prepare 2 MCQ's from topic 1.2.1.**

**Day: 2**

**Q.1. Answer the following questions?**

1. Define mixture. Give examples
2. What are different types of mixtures?
3. Different between mixture and compound.
4. Define atomic number and mass number. Give examples of each.
7. What are isotopes? Give examples.

**Q.2. Prepare 2 MCQ's from topic 1.2.2.**

**Day: 3**

**Q.1. Answer the following questions?**

1. Define relative atomic mass?
2. Define atomic mass unit.
3. What is chemical formula? Give examples
4. What is a molecular formula? Give examples
8. What is empirical formula? Give examples.

**Q.2. Prepare 2 MCQ's from topic 1.2.3**

**Day: 4**

**Q.1. Answer the following questions?**

1. Identify empirical and molecular formula for benzene from the following formula?

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- a)  $C_6H_6$
- b)  $CH$
2. Molecular formula for water and carbon dioxide are  $H_2O$  and  $CO_2$  respectively. What are the empirical formulae for these compounds?
3. Define formula unit. Give examples
4. Define Molecular Mass? Give two examples
5. Define Formula Mass? Give two examples.

### Q.2. Prepare 2 MCQ's from topic 1.2.4.

Day: 5

#### Q.1. Answer the following questions?

1. Why all the ionic compounds are represented by their empirical formulas?
2. Define Atom?
3. Define Ion? Write down its types.
4. Differentiate between atom and ion. Give one example of each.
5. Why are ionic compounds neutral?

### Q.2. Prepare 2 MCQ's from topic 1.2.5. Page 2 of 3

#### Week: 4

Day: 1

#### Q.1. Answer the following questions?

1. What is the behavior of metals?
2. What is the behavior non-metals for ionization?
3. Define Molecular Ion?
4. At what temperature molecular ions exist?
5. Which compounds are not formed by molecular ions?

### Q.2. Prepare 2 MCQ's from topic 1.3.1.

Day: 2

#### Q.1. Answer the following questions?

1. Define Free Radicals?
2. Differentiate between an ion and a free radical.
3. Differentiate between molecular ion and free radical?
4. What is a difference between Chloride free radical and Chloride ion?
5. Which species has even number of electrons?

### Q.2. Prepare 2 MCQ's from topic 1.3.2.

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**Day: 3**

**Q.1. Answer the following questions?**

1. Which species has odd number of electrons?
2. What are Representative Particles of Elements and Compounds?
3. Differentiate between monoatomic and poly atomic molecules?
4. Define Avogadro's number?
5. How is Avogadro's number related to mass of a substance?

**Q.2. Prepare 2 MCQ's from topic 1.4**

**Day: 4**

**Q.1. Answer the following questions?**

1. Define Mole? Give examples
2. Define molar mass? Give examples
3. Define gram atomic mass? Give examples
4. Define Gram Molecular Mass? Give examples
5. Define Gram Formula Mass? Give examples

**Q.2. Prepare 2 MCQ's from topic 1.4.3.**

**Day: 5**

**Q.1. Answer the following questions?**

1. The simplest ratio between C, H and O atoms in glucose is 1:2:1. What is the empirical formula of glucose?
2. The actual ratio between C, H, and O atoms in a glucose molecule is 6:12:6. What is the molecular formula of glucose?
3. Write the empirical formulas for the compound containing carbon to hydrogen in the following ratios:
  - a) 1:4
  - b) 2:6
  - c) 2:2
  - d) 6:6
4. For many compounds, empirical and molecular formulas are same. For example, Water (H<sub>2</sub>O), Carbon dioxide (CO<sub>2</sub>), Ammonia (NH<sub>3</sub>), Methane (CH<sub>4</sub>), Sulphur dioxide (SO<sub>2</sub>) etc. can you explain it why?
5. Aspirin is used as a mild pain killer. There are nine carbon atoms, eight hydrogen atoms and four oxygen atoms, in this compound. Write its empirical and molecular formulas.

**Q.2. Prepare 2 MCQ's from topic 1.5.**

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Computer

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## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Computer

Assessment No: 1

Total Marks: 25

Q # 1: Encircle the correct option.

(5)

I. Computer is an/a \_\_\_\_\_ machine.

- A) Loading
- B) Mechanical
- C) Electronic programmable
- D) Special

II. Who is called the father of Computer?

- A) Blaise Pascal
- B) John Napier
- C) Charles Babbage
- D) Herman Hollerith

III. Who invented logarithm?

- A) Blaise Pascal
- B) John Napier
- C) Charles Babbage
- D) Herman Hollerith

IV. Which generation of computer used transistor?

- A) 1<sup>st</sup> Generation of Computers
- B) 2<sup>nd</sup> Generation of Computers
- C) 3<sup>rd</sup> Generation of Computers
- D) 4<sup>th</sup> Generation of Computers

V. In which generation of computer microprocessor was introduced?

- A) 1<sup>st</sup> Generation of Computers
- B) 2<sup>nd</sup> Generation of Computers
- C) 3<sup>rd</sup> Generation of Computers
- D) 4<sup>th</sup> Generation of Computers

Q # 2: Give short answers of the following questions.

(3x4=12)

1. What is computer? How does it work?
2. Write a short note on Mark-I computer.
3. What is abacus?
4. What is Analytical Engine? Why it has much importance than other historical calculating machines?

Q # 3: Compare the characteristics of 1<sup>st</sup> and 3<sup>rd</sup> generation computers. (8)

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## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Computer

Worksheet No: 2

Week-3

**Q#1: What are the types of computers?**

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**Q#2: Describe analog computers.**

**Analog Computers**

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**Q#3: Describe Digital Computers.**

**Digital Computer**

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Q#4: Describe Hybrid computer.

Hybrid Computers

### 1.1.1 CLASSIFICATION OF DIGITAL COMPUTERS

Q#5: Describe the Classification of Digital Computer.

Q#6: What is supercomputer?

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**Q#7: What is Mainframe Computer?**

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**Q#8: What is Minicomputer?**

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**Q#9: What is Microcomputer?**

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### 1.2 ROLE OF COMPUTER

Computer plays important role in modern society and it has changed it in many ways. It is the best invention ever made in the history of modern technology. It has brought advancement in various fields of life.

#### 1.2.1 USE OF COMPUTERS IN VARIOUS FIELDS

Q#10: Describe the role of computer in Education.

##### Education

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Q#11: Describe the role of computer in Business.

##### Business

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### Week-4

Q#12: Describe the role of computer in Defense.

#### Defense

Q#13: Describe the role of computer in Media.

#### Media

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Q#14: Describe the role of computer in Manufacturing.

### Manufacturing

### 1.2.2 CAREERS IN INFORMATION TECHNOLOGY (IT)

Q#15: Write a note on career as software engineer.

### Software Engineer

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Q#16: Write a note on career as Hardware Engineer.

Hardware Engineer

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Q#17: Write a note on career as Network Administrator.

Network Administrator

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**Q#18: Write a note on career as Database Administrator.**

**Database Administrator**

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**Q#19: Write a note on career as Web Designer.**

**Web Designer**

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Q#20: Write a note on career as Multimedia Designer.

Multimedia Designer

Q#21: Write a note on career as Information Security Analyst.

Information Security Analyst

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Q#22: Write a note on career as Computer Teacher.

Computer Teacher

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CLASS 8

URDU

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Urdu

Assessment No.1

Total Marks: 25

سوال نمبر ۱: درج ذیل سوالات کے جوابات تحریر کریں۔ (2x5=10)

۱۔ کونسے عمل کے ہونے پر لوگ وہم کرتے ہیں؟

۲۔ حمد کا مطالعہ کرنے کے بعد آپکے ذہن میں پہلا سوال کیا پیدا ہوتا ہے؟

۳۔ شمع توحید جلانے سے شاعر کی کیا مراد ہے؟

۴۔ نظم نعت کے شاعر کا کیا نام ہے؟

۵۔ نظم حمد کا مرکزی خیال لکھیں۔

سوال نمبر ۲: اپنے دوست کو امتحان میں کامیابی پر مبارکباد کا خط لکھیں۔ (۵)

سوال نمبر ۳۔ دیئے گئے بند کی تشریح کریں اور ساتھ نظم کا نام اور شاعر کا نام بھی لکھیں۔ (۵)

بزمِ کونین سجانے کے لیے آپ ﷺ آئے

شمعِ توحید جلانے کے لیے آپ ﷺ آئے

ایک پیغام جو ہر دل میں اُجالا کر دے

ساری دنیا کو سنانے کے لیے آپ ﷺ آئے

سوال نمبر ۴: (الف) الفاظ کی جمع لکھیں۔ (۲)

کشتی ، مرکز

(ب) الفاظ کے متضاد لکھیں۔ (۳)

دنیا ، توحید ، اندھیرا

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Urdu

Worksheet No: 1-

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تیسرا ہفتہ

(سبق : دردِ دل کے واسطے پیدا کیا انسان کو )

پہلا دن: سبق کا مطالعہ کر کے مشکل الفاظ کے معنی تحریر کریں اور انہیں یاد بھی کریں۔  
دوسرا دن: سبق ، دردِ دل کے واسطے پیدا کیا انسان کو ، کے مطابق درج ذیل سوالات کے مختصر جواب لکھیں۔

۱۔ حضرت عثمان غنیؓ کو تاجروں نے کتنے نفع کی پیشکش کی تھی؟

۲۔ حضرت عثمان غنیؓ کو زیادہ سے زیادہ نفع کہاں سے مل رہا تھا؟

۳۔ جنگِ یرموک میں صحابہ نے کس ایثار سے کام لیا؟

۴۔ ہمیں ایک دوسرے کی مدد کیوں کرنی چاہیے؟

۵۔ طالب علم ایک دوسرے کی مدد کیسے کر سکتے ہیں؟

۶۔ بحیثیت انسان دوسروں کے ساتھ ہمارا رویہ کیسا ہونا چاہیے؟

تیسرا دن: درج ذیل الفاظ کے معنی لُغت سے تلاش کر کے لکھیں۔

کارآمد ، خاطر خواہ ، ایثار ، سخاوت ، اپانچ ، نظیر

اس سبق میں مختلف مقامات پر حضرت محمدؐ کے لیے درج ذیل مختلف تعظیمی القابات استعمال ہوئے

ہیں۔ آپ انکے معنی تحریر کریں۔

خاتم النبیینؐ ، رسول اللہؐ ، سرور کائناتؐ ، رحمت دو عالمؐ

چوتھا دن : درج ذیل الفاظ کے متضاد لکھیں اور انہیں جملوں میں استعمال کریں۔

مخلوق ، خوشگوار ، بلند ، خشک ، سخاوت ، انسانیت

حضرت عثمان غنیؓ کو ذوالنورین کیوں کہا جاتا ہے؟

پانچواں دن: محاورہ کی تعریف لکھیں اور کم از کم دو محاورات لکھیں۔

ان محاورات کو اپنے جملوں میں استعمال کریں۔

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۱۔ تاریخ رقم کرنا ۲۔ نچھاور کرنا ۳۔ روح پرواز کرنا ۴۔ دال گنا ۵۔ پانی پانی ہونا  
چوتھا ہفتہ :

(سبق : پاکستان کے چند اہم تہوار )

پہلا دن: سبق کا مطالعہ کر کے مشکل الفاظ کے معنی تحریر کریں اور انہیں یاد بھی کریں۔  
دوسرا دن: سبق ، پاکستان کے چند اہم تہوار ، کے مطابق درج ذیل سوالات کے مختصر جواب لکھیں۔

۱۔ پاکستان کی تہذیب و ثقافت کیسی ہے؟

۲۔ لوک ورثہ کے میلے میں کون سی اشیا کی نمائش ہوتی ہے؟

۳۔ کوئی سے چار مذہبی تہواروں کے نام لکھیں۔

۴۔ شہید دور کا محل وقوع بیان کریں۔

۵۔ سمندر کی سطح سے شندور کی بلندی کتنی ہے؟

تیسرا دن: درج ذیل الفاظ کے معنی لکھیں اور اپنے جملوں میں استعمال کریں۔

مسافت ، مویشی، محیط، نمائش، فروغ، دست کاری

درج ذیل الفاظ میں سے مذکر اور مؤنث الگ لگ کریں۔

ثقافت، رقص، محیط، مزار، عرس، تہذیب، روایت

چوتھا دن: درج ذیل محاورات و تراکیب کا مفہوم واضح کریں۔

ایک لڑی میں پرونا، چار چاند لگانا، نمایاں مقام رکھنا، شہرت حاصل کرنا، اشتراک عمل

درج ذیل الفاظ میں سے واحد کی جمع اور جمع کے واحد لکھیں۔

ملک، مقاصد، ذریعہ، قبیلہ، لباس، صوفیا

پانچواں دن: درج ذیل محاورات کو جملوں میں استعمال کریں۔

قسم کھانا، گھوڑے بیچ کر سونا، خون سفید ہونا، مٹھی گرم کرنا، عید کا چاند ہونا۔

ST. MARY'S ACADEMY

CLASS 8

CLASS 8

ETHICS

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Ethics

Assessment No.1

Total Marks: 25

**Q1 Fill in the blanks. (use your neat copy for answers)**

(7)

(1) Non-intuitive religions are based on the study of \_\_\_\_\_ values.

(2) Religious teachings are based on fear of \_\_\_\_\_.

(3) \_\_\_\_\_ and religion have had a relationship for \_\_\_\_\_ of years.

(4) The study of self was started in \_\_\_\_\_.

(5) Inherited skills are called \_\_\_\_\_ behavior.

(6) All the Events of man's life are stored in \_\_\_\_\_.

(7) Religion is the biggest \_\_\_\_\_ supporter of man.

**Q2 Answer the following questions in 3 to 4 lines.**

(6x3=18)

**1- What is the role of religion in character building?**

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**2- What is the function of conscience?**

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**3- What is instinctive behavior?**

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# ST. MARY'S ACADEMY

## CLASS 8

4- How religion is a psychological support to man.

5- Why does the society important?

6- Why the moral teachings of religion are effective?

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Ethics

Worksheet No: 2

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.

Answer the following questions in 3 to 4 lines.

1- In every era of history what questions were asked by philosophers and scientists.

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

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# ST. MARY'S ACADEMY

## CLASS 8

3- How the entire universe is running?

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4- What did Paley say about God?

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

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6- What did Prophets tell about god?

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7- What is the concept of god in Hinduism?

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# ST. MARY'S ACADEMY

## CLASS 8

8- What is the concept of god in Zorastarism?

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9- What is the concept of god in Buddhism?

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ST. MARY'S ACADEMY

CLASS 8

CLASS 8

ISLAMIIYAT

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Islamiyat

Assessment No: 1

Total Marks: 15

(حصہ اول)

سوال نمبر ۱۔ خالی جگہ پُر کریں۔ (۳)

- ۱۔ نامہ اعمال میں انسان کے چھوٹے بڑے تمام \_\_\_\_\_ درج ہوں گے۔
- ۲۔ آخرت کی جواب دہی کا احساس انسان کو ظلم اور برائی سے روکنے کا بہترین \_\_\_\_\_ ہے۔
- ۳۔ عقیدہ آخرت ایک انسان کا بہت بڑا اور سچا \_\_\_\_\_ ہے۔

سوال ۲۔ درست جواب کا انتخاب کریں۔ (۲)

- |                                                  |                |              |                 |
|--------------------------------------------------|----------------|--------------|-----------------|
| ۱۔ حج کا احرام باندھنے کی مقررہ جگہ کو کہتے ہیں؟ | ب۔ سعودی عرب   | ج۔ میقات     | د۔ عرفات        |
| ۲۔ بے شک حج دھوڑا لتا ہے؟                        | ب۔ کوتاہیوں کو | ج۔ گناہوں کو | د۔ پریشانیوں کو |

(حصہ دوم)

سوال نمبر ۳۔ درج ذیل سوالات کے مختصر جوابات تحریر کریں۔ (۱۰)

۱۔ حج کے لغوی اور شرعی معنی لکھیے۔

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

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# ST. MARY'S ACADEMY

## CLASS 8

۳۔ تحل کے کیا معنی ہیں؟

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

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

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# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Islamiyat

Worksheet No: 2

(حصہ اول)

سوال نمبر ۱۔ خالی جگہ پُر کریں۔

- ۱۔ فتح مکہ کے موقع پر آپ ﷺ نے اعلان فرمایا جاؤ تم سب \_\_\_\_\_ ہو۔
- ۲۔ رسول ﷺ نے اپنے چچا حضرت حمزہؓ کے قاتل \_\_\_\_\_ کو بھی معاف کر دیا۔
- ۳۔ جو شخص ہمارے \_\_\_\_\_ پر رحم نہیں کرتا وہ ہم میں سے نہیں۔
- ۴۔ جو شخص \_\_\_\_\_ نہیں کرتا اس پر رحم نہیں کیا جاتا۔
- ۵۔ صبر کے \_\_\_\_\_ ہیں اپنے آپ کو قابو میں رکھنا۔
- ۶۔ قرآن پاک نے \_\_\_\_\_ کا بیان بہت اچھے انداز میں کیا ہے۔
- ۷۔ تمام آزمائشوں میں اپنے آپ کو \_\_\_\_\_ کے سپرد کر دینا چاہیے۔
- ۸۔ اس میں کوئی شک نہیں کہ اللہ تعالیٰ سب کچھ \_\_\_\_\_ والا ہے۔
- ۹۔ ایمان والوں کی صفت ہے کہ وہ مصیبت میں \_\_\_\_\_ سے کام لیتے ہیں۔
- ۱۰۔ صبر کے معنی اپنے آپ پر قابو رکھنا تکلیف \_\_\_\_\_ کرنا۔

# ST. MARY'S ACADEMY

## CLASS 8

(حصہ دوم)

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

۱۔ کوئی تکلیف پہنچے تو ایک صابر انسان کو کیا کہنا چاہیے۔

۲۔ تحمل کے معنی بیان کریں۔

۳۔ ایمان والوں کو مصیبت اور مشکل کے وقت کیا طرز عمل اختیار کرنا چاہیے۔

۴۔ اللہ نے اپنے رسول ﷺ کے ذمے کیا کام لگایا۔

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

۶۔ رسول ﷺ کے دانت مبارک کس غزوہ میں شہ

(حصہ سوم)

نوٹ۔ مندرجہ ذیل سوالات کے تفصیلی جوابات تحریر کریں۔

۱۔ سورۃ الاحزاب کی اکیسویں آیت مع ترجمہ لکھیں۔

۲۔ من لا یرحم لا یرحم کا ترجمہ لکھیں۔

۳۔ صحابہ کرامؓ کی استقامت کی مثالیں تحریر کریں۔

۱) اسباق ۱۔ خلق عظیم ۲۔ صبر و تحمل ۳) ان اسباق کی روشنی میں ورک شیٹ حل کریں۔

ST. MARY'S ACADEMY

CLASS 8

# CLASS 8

# ENGLISH

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: English

Assessment No.1

Total Marks: 25

**Q. 1: Put the verbs in the correct form of the Present Indefinite or Present Continuous Tense. (5)**

1) He (go) to school every day.

\_\_\_\_\_

2) It (rain) at present.

\_\_\_\_\_

3) The earth (revolve) around the sun.

\_\_\_\_\_

4) The children (play) indoor games these days.

\_\_\_\_\_

5) Good students always keep their hands clean.

\_\_\_\_\_

**Q. 2: Provide the correct Verb form in the blanks to make it into Present Perfect Tense by using 'has' or 'have'. /5**

Example: They have (arrive) 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)

# ST. MARY'S ACADEMY

## CLASS 8

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)

**Q. 3) Please use the article 'a' and 'an' or 'the' where necessary. /4**

1. \_\_\_\_\_ cat is a loving animal.

2. \_\_\_\_\_ table is made of wood.

3. \_\_\_\_\_ child drinks milk.

4. We write with \_\_\_\_\_ pen.

**Q. 4) Fill in the blanks with the given prepositions e.g. for, from, with, of, at, before etc. (/5)**

1. He is fond \_\_\_\_\_ coffee.

2. The boy was ashamed \_\_\_\_\_ his behavior.

3. He was angry \_\_\_\_\_ me.

4. The train arrived \_\_\_\_\_ Lahore station in time.

5. He was not aware \_\_\_\_\_ my difficulties.

**Q. 3) Please recall the lesson No. 1 and 2 from PTB – 8 ENGLISH Text Book and answer the questions given below: -**

**Q (i) What do you mean by tolerance? (/3)**

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ST. MARY'S ACADEMY

CLASS 8

Q (ii) Why does Qasim's uncle think that our English has to be good? ( /3)

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: English

Worksheet No: 2

**Q.1) Read about 'Simile' given at page No. 17 in your PTB – 8 and make your own similes with the given words.**

**"A simile compares two things using 'like' or 'as' for example:-**

**He is as brave as a lion.**

**Major Aziz Bhatti fought like a lion in the war of 1965.**

- 1) hot \_\_\_\_\_
- 2) right \_\_\_\_\_
- 3) big \_\_\_\_\_
- 4) idle \_\_\_\_\_
- 5) beautiful \_\_\_\_\_
- 6) soft \_\_\_\_\_

**Q. 2) Put the verbs in the correct form of the Present Perfect Tense or Present or Present Perfect Continuous Tense. (PTB Grammar Page No. 164)**

- i) I already (take) three cups of coffee.

\_\_\_\_\_

- ii) I (not see) you since Monday.

\_\_\_\_\_

- iii) My brother (not write) to me for ten years.

\_\_\_\_\_

- iv) She (learnt) French for over two years.

\_\_\_\_\_

- v) The book (lie) on the table for weeks.

\_\_\_\_\_

- vi) He (not speak) to me since March.

# ST. MARY'S ACADEMY

## CLASS 8

vii) She (sleep) since morning.

viii) How long you (wait) here?

ix) He (stand) in the sun for an hour.

x) They (not eat) anything since morning.

**Q. 3) Read the topic, The Simple Past Tense from Page No. 165 of your English Grammar book and Put the verbs in the brackets in the correct form of the Simple Past or Past Continuous Tense.**

1. It (begin) to rain an hour ago.

2. How long ago you come here.

3. She (not hear) any noise. (use did not with the first form of the verb)

4. He (ride) a bike when he (meet) an accident.

5. The guests (leave) twenty minutes ago.

6. He (go) to the airport when I (see) her.

7. The light (go) when we (have) dinner.

# ST. MARY'S ACADEMY

## CLASS 8

8. She (sing) a song when I (enter) the room.

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9. I (meet) my school friend in the plane.

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10. He (do) not reply to my e-mail. ( use did not with the first form of the verb)

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**Q. 4) After reading the examples from Page No. 167 or 168, remember three basic Rules to make Passive Voice:-**

**Rule No. 1:** Identify and circle the 'Subject' and 'Object' in the Active Voice Sentences.

**Rules No. 2:** The Subject and Object are interchanged. (The Subject becomes Object and the Object becomes Subject)

**Rule No. 3:** The helping verbs, 'is', 'am', 'are', 'was', 'were' are used with the 3<sup>rd</sup> form of the Verb according to the Present or Past Tense.

**Rule No. 4:** The Preposition 'by' is placed before the Object.

**Rule No. 5:** In Present or Past Continuous Tense, Use is being, are being, was being or were being according to the type of the tense.

**Example:** **Active Voice:** We enjoy a pizza.

**Passive Voice:** A pizza is enjoyed by us.

**Make the Passive Voice of the following Active Voice sentences:-**

**Active Voice No. 1.** The mother loves the children.

**Passive Voice:** \_\_\_\_\_

**Active Voice No. 2** They are buying this house.

**Passive Voice:** \_\_\_\_\_

**Active Voice No. 3.** She has not beaten the dog.

**Passive Voice:** \_\_\_\_\_

# ST. MARY'S ACADEMY

## CLASS 8

Active Voice No. 4. She bought five video films.

Passive Voice: \_\_\_\_\_

Active Voice No. 5. Why did she write such a letter.

Passive Voice: \_\_\_\_\_

Active Voice No. 6. She is teaching the students.

Passive Voice: \_\_\_\_\_

Active Voice NO. 7. They have visited Lake View Park.

Passive Voice: \_\_\_\_\_

Active Voice No 8. The boy is climbing the ball.

Passive Voice: \_\_\_\_\_

Q. 5) Please recall the lesson No. 1 and 2 from PTB – 8 ENGLISH Text Book and answer the questions given below: -

Q (i) Give an example of tolerance from the life of the Rasool (P.B.U.H)?

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Q (ii) How did the Rasool (P.B.U.H) respond to the ill – treatment by the people of Taif?

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# ST. MARY'S ACADEMY

## CLASS 8

Q. (iii) How did the Rasool (P.B.U.H) deal with his enemies at the conquest of Makkah?

### Week-4

Q. 1 Read carefully Chapter No. 1, 2 and 3 from PTB 8 and answer the following questions:-

Q. i) What did Hazrat Ans Bin Malik (R.A) say about the Rasool (P.B.U.H) ?

# ST. MARY'S ACADEMY

## CLASS 8

Q. ii) Why did Qasim come back from Saudi Arabia?

Q iii) What two subjects does Qasim find tough?

Q. iv) Why was everything stuck?

Q.(v) What has Qasim decided to do after his studies?

Q. No. 2) (i) Read the poem from Chapter No. 3 and write down a few lines

# ST. MARY'S ACADEMY

## CLASS 8

about the poet, Samuel Taylor Coleridge?

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Q. (ii) Read carefully the details given at page No. 1 about the poem, 'On the Ocean' and write down the main idea of the poem.

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Q. iii) Define the bloody sun.

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Q. v) Explain (Paraphrase) the given stanza in your own simple words.

Water, water, everywhere,  
And all the boards did shrink,  
Water, water, everywhere,  
But not a drop to drink.

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# ST. MARY'S ACADEMY

## CLASS 8

Q. 3) Write an Essay on, 'Why do I love my Country' in about 120 to 140 words.

- Please be careful to make short paragraphs
- Try to have an introductory paragraph, the middle and a good ending
- Give reasons of your patriotism e.g. This is the land of your forefathers. Or Majority of your family members are living here.
- Give details about four seasons, scenic beauty, hill stations, variety of fruits, vegetables and other natural resources. Cultural heritage and eastern values etc.



ST. MARY'S ACADEMY

CLASS 8

CLASS 8

MATHS

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Mathematics

Assessment No.1

Total Marks: 25

Q Identify the following matrices:

(1X3=3)

i)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

ii)  $[0]$

iii)  $\begin{bmatrix} 9 & 0 \\ 7 & 4 \end{bmatrix}$

Q Solve the following questions.

1)  $\begin{bmatrix} a+3 & 4 \\ 6 & b-1 \end{bmatrix} = \begin{bmatrix} -3 & 4 \\ 6 & 2 \end{bmatrix}$  find a and b. (4)

2) Find the transpose of the matrices given below: (2)

$$A = \begin{bmatrix} 8 \\ 6 \\ 1 \end{bmatrix}$$

Q If  $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 1 & -1 & 0 \end{bmatrix}$ ,  $B = \begin{bmatrix} 1 & -1 & 1 \\ 2 & -2 & 2 \\ 3 & 1 & 3 \end{bmatrix}$ ,  $C = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -2 & 3 \\ 1 & 1 & 2 \end{bmatrix}$  Verify that: (2.5x2=5)

a)  $A + C = C + A$

b)  $B + C = C + B$

Q Solve the following questions:

(5)

c) If  $A = \begin{bmatrix} 1 & 2 \\ 0 & 1 \end{bmatrix}$  verify that  $(A^t)^t = A$

Q Write the order of the following matrices

(2x3=6)

i)  $A = \begin{bmatrix} 6 & 9 \end{bmatrix}$

ii)  $B = [3]$

(iii)  $C = \begin{bmatrix} 4 \\ 0 \\ 6 \end{bmatrix}$

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Mathematics

Worksheet No: 2

**Q Identify the following matrices:**

iv)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

ii)  $[0]$

iii)  $\begin{bmatrix} 4 & 0 \\ 0 & 4 \end{bmatrix}$

iv)  $\begin{bmatrix} 1 & 4 \\ 2 & 5 \\ 3 & 6 \end{bmatrix}$

v)  $[3 \quad 10 \quad -1]$

**Q Write the order of the following matrices**

iii)  $A = [2 \quad 4]$

ii)  $B = [2]$

iii)  $C = \begin{bmatrix} 4 \\ 0 \\ 6 \end{bmatrix}$

**Q Do the following questions.**

- 1) Define a row matrix.
- 2) What is a null or zero matrix?
- 3) Find the negative of the following matrices:

$$A = \begin{bmatrix} 1 \\ 0 \\ -1 \end{bmatrix}$$

$$B = \begin{bmatrix} 3 & -1 \\ 2 & 1 \end{bmatrix}$$

**Q Find the transpose of the matrices given below:**

$$A = \begin{bmatrix} 0 \\ 1 \\ 2 \end{bmatrix}$$

$$B = [5 \quad 1 \quad -6]$$

**Q Solve the following questions:**

- 1) If  $A = \begin{bmatrix} 1 & 2 \\ 0 & 1 \end{bmatrix}$  verify that  $(A^t)^t = A$
- 2) Find the values of a, b, c, and d which satisfy the matrix equations.

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

**Q Fill in the blanks:**

- i) Two matrices are comfortable for addition and subtraction if they have \_\_\_\_\_.
- ii) If A and B are the two matrices of same order such that  $A + B = 0 = B + A$  then A and B are called \_\_\_\_\_ inverse of each other.
- iii)  $\begin{bmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{bmatrix}$  is called \_\_\_\_\_ matrix.

# ST. MARY'S ACADEMY

## CLASS 8

iv) The order of the matrix  $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$  is \_\_\_\_\_.

**Q Solve the following questions.**

3)  $\begin{bmatrix} a+3 & 4 \\ 6 & b-1 \end{bmatrix} = \begin{bmatrix} -3 & 4 \\ 6 & 2 \end{bmatrix}$  find a and b.

4) Perform the indicated operation and solve the following.

a)  $\begin{bmatrix} 2 & 3 & 1 \end{bmatrix} + (\begin{bmatrix} 1 & 0 & 2 \end{bmatrix} - \begin{bmatrix} 2 & 2 & 2 \end{bmatrix})$

b)  $\begin{bmatrix} 1 & 2 & 3 \\ -1 & -1 & -1 \\ 0 & 1 & 2 \end{bmatrix} + \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \end{bmatrix}$

Q If  $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 1 & -1 & 0 \end{bmatrix}$ ,  $B = \begin{bmatrix} 1 & -1 & 1 \\ 2 & -2 & 2 \\ 3 & 1 & 3 \end{bmatrix}$ ,  $C = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -2 & 3 \\ 1 & 1 & 2 \end{bmatrix}$  Verify that:

d)  $A + C = C + A$

e)  $B + C = C + B$

ST. MARY'S ACADEMY

CLASS 8

CLASS 8

Physics

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: Mathematics

Assessment No.1

Total Marks: 25

Q # 1: Encircle the correct option.

(5)

I. The number of base units in SI are?

- A) 3
- C) 7

- B) 6
- D) 9

II. which one derived unit?

- A) N
- C) Kg

- B) m
- D) g

III. A measuring cylinder is used to measure?

- A) m
- C) liter

- B) Kg
- D) sec

IV. Which one is smallest quantity?

- A) 0.01g
- C) 100 micro g

- B) 2mg
- D) 5000 ng

V. Which is branch of Physics?

- A) Biochemistry.
- C) Trigonometry.

- B) Thermodynamics.
- D) Geography.

Q # 2: Give short answers of the following questions.

(3x4=12)

1. Differentiate between Atomic physics and Nuclear physics..
2. Define Base units.
3. Write The seven Base physical quantities with their base units.
4. What are the symbols of mass, length, electric current and intensity of light?

Q # 3: Name and Define all the branches of Physics.

(8)

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: *Physics*

Worksheet No: 2

Per day work for 5 days is as:

1. Define Scientific Notation and give example to explain it.
2. Why do we need measuring instruments?
3. Explain the working of Vernier Calipers.
4. Define and give usage of the meter rule.
5. Who uses measuring tape and what is its construction?

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CLASS 8

# CLASS 8

# BIOLOGY

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: *Biology*

**Assessment No.1**

Total Marks: 25

**Q 1. Give brief answer of the following Questions.**

**(20)**

- i. Define the following;
  - a. Genetics
  - b. Histology
  - c. Biotechnology
- ii. What is microbiology?
- iii. Briefly discuss the role of Biotechnology for the welfare of mankind.
- iv. What is Taxonomy?
- v. What are the major divisions of Biology.

**Q 2. Fill in the blank with appropriate words.**

**(5)**

- i. Biology is the scientific study of \_\_\_\_\_.
- ii. The division of biology that deals with the study of animals is called \_\_\_\_\_.
- iii. Botany is the division of biology that deals with the study of \_\_\_\_\_.
- iv. The study of the structures and functions of cells and cell organelles is called \_\_\_\_\_.
- v. Biochemistry deals with the study of chemistry of different compounds and processes occurring in \_\_\_\_\_.

# ST. MARY'S ACADEMY

## CLASS 8

Name: \_\_\_\_\_

Section: \_\_\_\_\_

Subject: *Biology*

Worksheet No: 2

### WEEK 3

#### NOTE FOR THE STUDENTS:

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

#### DAY 1:

Give brief answer of the following Questions.

#### Q. 1 Define Interdisciplinary Sciences?

The interrelationship among different branches of science cannot be denied. Biology includes information on various aspects of living things but this information relate to the other branches of science as well. Each branch of science has relationship with all other branches. This forms the basis of **interdisciplinary sciences**.

OR

The interrelationship of Science among different branches is known as **interdisciplinary sciences**.

#### Q. 2 What is Biophysics? Explain with example

It deals with the study of the principles of physics, which are applicable to biological phenomena. For example there is a similarity between the working principles of lever in physics and limbs of animals in biology.

#### Q. 3 Define Biochemistry with example.

It deals with the study of the chemistry of different compounds and processes occurring in living organisms. For example the study of basic metabolism of photosynthesis and respiration involves the knowledge of chemistry.

#### Q. 4 Discuss the relationship of biology with mathematics.

It deals with the study of biological processes using mathematical techniques and tools.

For example to analyze the data gathered after experimental work, biologists have to apply the rules of mathematics.

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### Q. 5 What is Biogeography?

It deals with study of the occurrence and distribution of different species of living organisms in different geographical regions of the world.

### Q. 6 Define Bioeconomics with example.

It deals with the study of organisms from economical point of view.  
For example the cost value and profit value of the yield of wheat can be calculated through bio economics and benefits or losses can be determined.

### DAY 2:

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

1. Study of biological processes using mathematical techniques and tools is known as \_\_\_\_\_.
2. Similarity between the working principles of lever in physics and limbs of animals in biology is studied under \_\_\_\_\_.
3. Biochemistry deals with the study of chemistry of different compounds and processes occurring in \_\_\_\_\_.
4. The knowledge of the characteristics of particular geographical regions to determine the characteristics of living organisms is studied under \_\_\_\_\_.
5. The interrelationship of science with other branches is known as \_\_\_\_\_.

Living organisms, Biophysics, Biogeography, Interdisciplinary sciences, Biometry
----------------------------------------------------------------------------------

### DAY 3:

**Write and learn the Careers in biology.**

1. **Medicine / Surgery:** The profession of medicine deals with the diagnosis and treatment of diseases in human. In surgery the parts of the body may be repaired, replaced or removed, for example the removal of stones through renal surgery, transplantation of kidney, liver etc. Both these professions are studied in the same basic course (MBBS) and then students go for specializations.
2. **Fisheries:** Fisheries is the professional study of fish production. There are departments in Pakistan where professionals of fisheries are employed. They serve

# ST. MARY'S ACADEMY

## CLASS 8

for enhancing the quality and quantity of fish production. In Pakistan, this profession can be adopted after the bachelor or masters level study of zoology and fisheries.

3. **Agriculture:** This profession deals with the food crops and animals which are the source of food. An agriculturist works for the betterment of crops like wheat, rice, corn etc. and animals like buffalo cow etc. from which we get food. In Pakistan there are many universities which offer professional courses on agriculture after the higher secondary education in biology.
4. **Animal husbandry:** It is the branch of agriculture concerned with the care and breeding of domestic animals (livestock) e.g. cattle, sheep etc. Professional courses in animal husbandry can be adopted after the higher secondary education in biology.

### DAY 4:

#### Choose the correct option.

1. If a scientist is studying the methods of inserting human insulin gene in bacteria, which branch of biology may this be?  
a. Anatomy      b. Physiology      c. Biotechnology      d. Pharmacology
2. Similar cells organized into groups and performing same functions, are known as;  
a. Organelle      b. Tissue      c. Organ      d. Organ system
3. Which of these major bio elements is in the highest percentage in protoplasm?  
a. Carbon      b. Hydrogen      c. Oxygen      d. Nitrogen
4. The level of organization that is less definite in plants is;  
a. Tissue level      b. Organ level      c. Organ system level      d. Individual level
5. Which of these tissues also makes the glandular tissue in animals?  
a. Epithelial tissue      b. Muscular tissue      c. Connective tissue      d. Nervous tissue

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## CLASS 8

### WEEK 4

#### DAY 1:

#### **Write and learn the Careers in biology.**

5. **Horticulture:** It deals with the art of gardening. A horticulturist works for the betterment of existing varieties and for the production of new varieties of ornamental plants and fruit plants. Biology students can adopt this profession after their higher secondary education.
6. **Farming:** It deals with the development and maintenance of different types of farm. For example in some farms animal breeding technologies are used for the production of animals which are better protein and milk source. In poultry farms chicken and eggs are produced. Similarly in fruit farms, different fruit yielding plants are grown. A student who has gone through the professional course of agriculture, animal husbandry or fisheries etc. can adopt this profession.
7. **Forestry:** In forestry, professionals look after natural forests and advise to the government for planting and growing artificial forests. Many universities offer professional courses in forestry after the higher secondary education in biology or after bachelor level study of zoology and botany.
8. **Biotechnology:** It is the latest profession in the field of biology. Biotechnologists study and work for the production of useful products through microorganisms. Universities offer courses in biotechnology after the higher secondary education in biology and after the bachelor level studies of botany or zoology.

#### DAY 2:

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

1. \_\_\_\_\_ is the art of gardening.
2. Famous books of Jabar bin Hayan are \_\_\_\_\_ and \_\_\_\_\_.
3. \_\_\_\_\_ is considered as the first Muslim scientist who studied animals in detail.
4. Life span of Bu Ali Sina was from \_\_\_\_\_ to \_\_\_\_\_.
5. \_\_\_\_\_ is known as the canon of medicine in West.

Al- Nabatat and Al- Hawan, Horticulture, 980 - 1037 AD, Al Qanun fil tib, Abdul Malik Asmai

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### DAY 3:

**Give short answers of the following questions.**

- Q. 1 Define Atom. What are subatomic particles?
- Q. 2 What are Bio elements?
- Q. 3 List the Bio elements which are present in human body.
- Q. 4 What are Biomolecules?
- Q. 5 Write down the classification of Biomolecules.

### DAY 4:

**Choose the correct option.**

- i. Micromolecules are with low molecular weight which include,
- |             |                  |
|-------------|------------------|
| a. Glucose  | b. Starch        |
| c. Proteins | d. Carbohydrates |
- ii. Ribosomes are specialized for,
- |                         |                      |
|-------------------------|----------------------|
| a. Cellular respiration | b. Protein synthesis |
| c. Fats                 | d. Starch            |
- iii. Plant tissues include all of the following except;
- |                     |                  |
|---------------------|------------------|
| a. Epidermal tissue | b. Muscle tissue |
| c. Ground tissue    | d. Xylem tissue  |
- iv. Organs present in the digestive system are all except;
- |                    |          |
|--------------------|----------|
| a. Stomach         | b. Liver |
| c. Small intestine | d. Heart |
- v. \_\_\_\_\_ is defined as a group of organisms of the same species located at the same place at the same time.
- |                  |              |
|------------------|--------------|
| a. Organ systems | b. Community |
| c. Population    | d. Biosphere |