

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

Pak. Studies

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Pak. Studies

Assessment No.1

Total Marks: 15

Fill the blanks:

( / 6 )

1. Kargill War took place in May \_\_\_\_\_ between India and Pakistan.
2. Imposing taxes at local level is the duty of \_\_\_\_\_.
3. President Ghulam Ishaq Khan using the powers under section 58-2B of the 1973 Constitution dismissed the government Benazir Bhutto on \_\_\_\_\_ 1990.
4. Under \_\_\_\_\_ America discontinue the supply of defense armament to Pakistan.
5. FATA stands for \_\_\_\_\_.
6. Habib Bank was sold for Rs. \_\_\_\_\_ billion only.

### SHORT QUESTIONS

(3x3= 09)

1. What is meant by Lahore declaration?
2. What was the limit of the agricultural land which PM Zulfikar Ali Bhutto fixed for the individual holding?
3. In which election was graduation made conditional for the candidates?

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Pak. Studies

Worksheet No.2

### WEEK III

#### CHAPTER 5

#### HISTORY OF PAKISTAN II

Read Chapter # 5 carefully, understand it and then fill in the blanks with the help of words given at the end:

#### Day I (Time: 15 Minutes)

1. Zulfikar Ali Bhutto took the office of President of Pakistan as Chief Martial Law Administrator on \_\_\_\_\_ 1971.
2. Industrial licenses of more than Rs. \_\_\_\_\_ million worth issued to 19 companies were declared illegal.
3. Mr. Bhutto issued an Ordinance on 2<sup>nd</sup> January \_\_\_\_\_ under which the Government nationalized ten heavy Industries.
4. On 16<sup>th</sup> August 1972, \_\_\_\_\_ industrial units were nationalized.
5. On 16<sup>th</sup> August 1972, \_\_\_\_\_ % of the country's industrial assets were owned by 22 families.
6. For the economic stability of the country all the insurance companies were nationalized in \_\_\_\_\_ 1972.

#### Day II (Time: 15 Minutes)

7. Bhutto government announced Labour Policy in \_\_\_\_\_ 1972
8. According to the constitution of 1973, the National Assembly would have tenure of \_\_\_\_\_ years.
9. There are \_\_\_\_\_ articles in the constitution of 1973.
10. The second general election was held in \_\_\_\_\_.
11. General Zia ul Haq ruled the country for about 11 years from July 1977- August \_\_\_\_\_.
12. Zakat is deducted at the rate of \_\_\_\_\_ %.

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13. 10 % Usher deduction from the annual agricultural produce was started in \_\_\_\_\_.

### Day III (Time: 15 Minutes)

14. In 1981, all saving accounts were converted to \_\_\_\_\_ account from 1<sup>st</sup> July 1984.

15. The invasion by Russian forces into \_\_\_\_\_ in 1979 created a new challenged for Pakistan.

16. America and Russia signed an accord in April 1988 in \_\_\_\_\_.

17. The Afghan Jihad ended in 15 February, \_\_\_\_\_.

18. More than 30 Lakh refugees migrated to \_\_\_\_\_.

19. In 1989 Pakistan rejoin \_\_\_\_\_.

### Day IV (Time: 15 Minutes)

20. The first Islamic world's Prime Minister was \_\_\_\_\_.

21. The International Islamic University in Islamabad was started in \_\_\_\_\_.

22. The tragedy of Babri Mosque took place in \_\_\_\_\_.

23. \_\_\_\_\_ was elected as a president in 1988.

24. According to the census of 1998 Pakistan's population was \_\_\_\_\_.

25. Lahore- Islamabad Motor Way was inaugurated in \_\_\_\_\_.

26. Pakistan is the \_\_\_\_\_ atomic power of the world.

### Day V (Time: 15 Minutes)

27. General Pervez Musharraf took over the country on 12 October \_\_\_\_\_ 1999.

28. Youm e Takbeer is celebrated on \_\_\_\_\_ each year.

29. The system of Local Government was implemented in South Asia in \_\_\_\_\_.

30. 33% of the total seats of district Council are reserved for \_\_\_\_\_.

31. In 1993, government of Benazir Bhutto started \_\_\_\_\_ five year plan.

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32. President General Ayub Khan issued an order for Basic Democracies on 27<sup>th</sup>

October \_\_\_\_\_.

### KEY WORDS

- |                          |                  |              |
|--------------------------|------------------|--------------|
| 1) 20 December           | 12) 1983         | 23) five     |
| 2) seventh               | 13) 60           | 24) Geneva   |
| 3) Ghulam Ishaq Khan     | 14) Afghanistan  | 25) 1989     |
| 4) 1976                  | 15) 1992         | 26) Pakistan |
| 5) 10 February           | 16) Commonwealth | 27) 13 Crore |
| 6) 2.5                   | 17) 1972         | 28) 1998     |
| 7) PLS                   | 18) 11           | 29) women    |
| 8) 100                   | 19) 280          | 30) eight    |
| 9) Benazir Bhutto        | 20) 19 March     | 31) 1959     |
| 10) 1988                 | 21) 1981         |              |
| 11) 28 <sup>th</sup> May | 22) 1884         |              |

### WEEK IV

### CHAPTER 6

### FOREIGN RELATIONS OF PAKISTAN

### SHORT QUESTIONS

#### 1. Describe the location of Pakistan.

Pakistan is located in the south of Asia. It covers an area of 796,096 square kilometers. Pakistan became an independent state in 1947. Pakistan shares land borders with 4 countries:

Iran lies in the south west of Pakistan. The length of Pak-Iran border is 800 km long.

India is in the east of Pakistan and share a border of 1600km.

China is in the north of Pakistan. Pakistan shares 592km log border with China.

Afghanistan: there is Afghanistan in the North West of Pakistan. Pak-Afghan border is called Durand line and it is 2250 km long.

Arabian Sea is located in the south of Pakistan.

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### Quick facts

Population	190,291,129 (2014)
Density	246.9 / km2 ( 639.3 / mi2 )
Languages	English, Urdu
Independence Year	1947
Capital	<a href="#">Islamabad</a> (Islamabad)
Currency	Pakistan Rupee
GDP per Capita	1,298 (2014 data)
Land Area	770,875 km2 (297,636 mi2)
Water Area	25,220 km2 (9,737 mi2)
Neighbouring Countries	<a href="#">Iran</a> , <a href="#">India</a> , <a href="#">China</a> , <a href="#">Afghanistan</a>
Longitude	60.880- 77.840
Latitude	23.690- 37.090

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

Chemistry

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Chemistry

Assessment No.1

Total Marks: 25

### MCQ'S FROM EXERCISE

Q.1. Encircle the correct answer. [1x5]

(i) Which is true about the equilibrium state?

- (a) The forward reaction stops.
- (b) The reverse reaction stops.
- (c) Both forward and reverse reactions stop.
- (d) Both forward and reverse reactions continue at the same rate.

(ii) Concentration of reactants and products at equilibrium remains unchanged if

- (a) concentration of any reactant or product is not changed.
- (b) temperature of the reaction is not changed.
- (c) pressure or volume of the system is not changed.
- (d) all of the above are observed

(iii) In an irreversible reaction equilibrium is

- (a) established quickly
- (b) established slowly
- (c) never established
- (d) established when reaction stops.

(iv) Active mass means

- (a) total mass of reactants
- (b) total mass of products
- (c) total mass of reactants and products
- (d) mass of substance in moles per dm<sup>3</sup> in a dilute solution

(v) For a reversible reaction

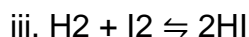
$K_c = \frac{[\text{products}]}{[\text{reactants}]}$

Which substance is product of the reaction?

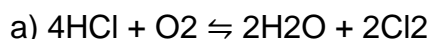
- (a) A
- (b) B
- (c) Both A and B
- (d) C

Q.2. Short questions [4x5]

1- Write the forward and the reverse reactions for the following reversible reactions.

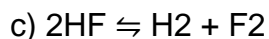
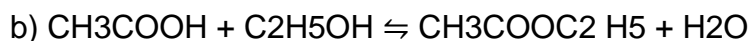


2- Write equilibrium constant expression for this reaction.

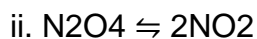
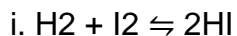


# ST. MARY'S ACADEMY

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3- Determine the units of equilibrium constants for the following reactions.



4. Write three differences between reversible and irreversible reactions.

5. Bromine Chloride ( $\text{BrCl}$ ) decomposes to form chlorine and bromine. For this reaction write.

a. Chemical equation

b.  $K_c$  expression

c. Units of  $K_c$

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Chemistry

Worksheet No: 2

### ORGANIC CHEMISTRY

Week: 3

Day: 1

#### 11.1. ORGANIC COMPOUNDS

Q.1. Answer the following questions?

1. Define Organic Compounds?
2. Define Organic Chemistry?
3. Why are some carbon compounds like carbon dioxide, carbon monoxide, carbonates and carbides not accepted as organic compounds?
4. Highlight the vital role of organic compounds?

Q.2. Prepare 2 MCQ's from the above mentioned topic?

Day: 2

#### 11.1.1. CHEMICAL DIVERSITY AND MAGNITUDE OF ORGANIC COMPOUNDS

Q.1. Answer the following questions?

1. What is reason for such a huge number of organic compounds?
2. Define catenation.
3. Define isomerism.
4. What are isomers? Give few examples of isomers.
5. Give few examples of multiple bonds

Q.2. Prepare 2 MCQ's from the above mentioned topic?

Day: 3

#### 11.1.2. General Characteristics of Organic Compounds

Q.1. Answer the following questions?

1. List some general properties of organic compounds?
2. Where do most of the organic compounds come from?
3. What is the nature of organic compound?
4. What is the composition of organic compound?
5. Why have organic compounds low melting and boiling point?
6. Why are organic compounds soluble in organic solvents such as ether, benzene, carbon disulphide etc.?

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Q.2. Prepare 2 MCQ's from the above mentioned topic?

Day: 4

### 11.1.3. Different types of formulas of Organic Compounds

Q.1. Answer the following questions?

1. Name the different types of formulas in organic compounds?
2. Define molecular formula. Give examples.
3. Define structural formula. Give examples.
4. What is condensed structural formula? Give examples.

Q.2. Prepare 2 MCQ's from the above mentioned topic?

Day: 5

### 11.1.4. Saturated and Unsaturated Hydrocarbons

Q.1. Answer the following questions?

1. What are saturated hydrocarbons? Give examples.
2. What are unsaturated hydrocarbons? Give examples.
3. Write the general formula for alkene.
4. Write the general formula for alkyne.
5. Write the table given below and learn it.

Stem	Number of C-atoms
Meth-	1
Eth-	2
Prop-	3
But-	4
Pent-	5
Hex	6
Hept-	7
Oct-	8
Non-	9
Dec-	10

Q.2. Prepare 2 MCQ's from the above mentioned topic?

Week: 4

Day: 1

### 11.2. Sources of Organic Compound

Q.1. Answer the following questions?

1. List major commercial sources of organic compounds (Alkanes)?
2. What are two main groups of organic compounds synthesized by animals?
3. Name the four main groups of organic compounds synthesized by plants.

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4. Which substances are obtained by coal when it is heated?

**Q.2. Prepare 2 MCQ's from the above mentioned topic?**

**Day: 2**

**11.2. Sources of Organic Compound**

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

1. What is meant by destructive distillation?
2. What is the use of coal gas?
3. Name the substance contained by coal gas?
4. What is coal tar?

**Q.2. Prepare 2 MCQ's from the above mentioned topic?**

**Day: 3**

**11.2. Sources of Organic Compound**

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

1. How are the organic components of coal tar separated?
2. Name some important organic compounds contained by coal tar?
3. What is the use of organic compounds present in coal tar?
4. What is coke and how is it obtained?

**Q.2. Prepare 2 MCQ's from the above mentioned topic?**

**Day: 4**

**11.2. Sources of Organic Compound**

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

1. What is used of coke?
2. What do you know about reducing agent?
3. What is natural gas?
4. Name the organic compounds present in natural gas.

**Day: 5**

**11.2. Sources of Organic Compound**

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

1. What is petroleum?
2. How are organic compounds separated by petroleum?
3. How many organic compounds have been prepared in laboratories?
4. What is the use of organic compounds prepared in laboratory?

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CLASS 10

Computer

# ST. MARY'S ACADEMY

## CLASS 10

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

Subject: Computer **Assessment No: 1** Total Marks: 25

**Q.1: Encircle the correct option.**

**(5)**

- I. ----- of a problem are all the possible solutions for a problem  
a. Algorithm                      b. Candid                      c. Flowchart                      d. Planning
- II. Defining the problem is the ----- stage of problem solving.  
a . first                      b. second                      c. third                      d. fourth
- III. Which symbol is used for processing in a flowchart?  
a . Rectangle                      b. parallelogram                      c. Diamond                      d. oval
- IV. ----- is a step by step written procedure to solve a problem.  
a . Flowchart                      b. Candid solution                      c. Analysis                      d. Algorithm
- V. Which structure allows a choice among various options while solving a problem?  
a . Repetition                      b. Selection                      c. Sequence                      d. Decision

**Q: Write short answers of the following questions.**

**3 \* 4 = 12**

- i) What is defining the problem?
- ii) How we analyses a problem?
- iii) What is a flowchart?
- iv) What are the advantages of using flow charts?

**Q: Write a detail note on different flow chart symbols.**

**(8)**

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Computer

Worksheet No: 2

Week -3

Q: Write short answers of the following questions.

I . Explain the term "Planning the solution of a problem".

Ans: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ii. Write an algorithm to find the acceleration of a moving object for given mass and the force applied.

HINT: Acceleration = Force / Mass

Answer:

Planning the solution:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Algorithm:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# ST. MARY'S ACADEMY

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iii. Write an algorithm to find the volume of a cube:

HINT: Volume of cube =  $L^3$

Answer:

Planning the solution:

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Algorithm:

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iv. Write the planning and Algorithm to find the area of Triangle when the lengths of height and base are given.

HINT: Area =  $(B * H) / 2$

Answer:

Planning the solution:

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Algorithm:

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# ST. MARY'S ACADEMY

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iv. Write an algorithm to print odd numbers from 1 to 100.

Answer:

Planning the solution:

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Algorithm:

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v. Write an algorithm to print multiplication table of a given number.

Answer:

Planning the solution:

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Algorithm:

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# ST. MARY'S ACADEMY

## CLASS 10

vi. Write an algorithm that inputs marks and prints the message "PASS" or "FAIL". Passing marks are 33.

Answer:

Planning the solution:

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Algorithm:

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vii. Convert temperature from Fahrenheit to Celsius.

HINT:  $C = \frac{5}{9} (F - 32)$

Answer:

Planning the solution:

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Algorithm:

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# ST. MARY'S ACADEMY

## CLASS 10

### Week -3

Q: Write short answers of the following questions.

i . Write the importance of flow chart in problem solving.

Answer: -----

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ii . Describe the following steps for writing a problem.

Input , processing

Answer:

Input:

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Processing:

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# ST. MARY'S ACADEMY

## CLASS 10

iii. Describe the following steps for writing a problem.

Decision , Output

Answer:

Decision:

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Output:

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iv. There is a problem that a person is unhappy with a product or service he/she has purchased from a company. Write three different solution of this problem.

Answer:

Solution 1:

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Solution 2:

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Solution 3:

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# ST. MARY'S ACADEMY

## CLASS 10

v . There is a problem that we want to find the average marks of a student. Write the planning for this problem.

Answer: -----  
-----  
-----  
-----  
-----

vi . Draw a flow chart to find the area of a triangle when the lengths of height and base are given.

(Drawing space)

vii. Draw a flowchart to read marks(M) and print letter grade according to the following criteria.

Marks  
 $M > 80$  and  $M \leq 100$

Letter Grade  
A1

# ST. MARY'S ACADEMY

## CLASS 10

M > 70 and M <= 80  
M > 60 and M <= 70  
M > 50 and M <= 60  
M > 40 and M <= 50  
M > 33 and M <= 40  
M < 33

A  
B  
C  
D  
E  
ungraded

(Drawing space)

viii. Draw a flowchart to print the largest of three unequal numbers.

(Drawing space)

# ST. MARY'S ACADEMY

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ix. Draw a Flowchart to find the acceleration of a moving objects for given mass and the force applied.

(Drawing space)

ST. MARY'S ACADEMY

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

URDU

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Urdu

Assessment No.1

Total Marks: 25

۱۰

سوال نمبر ۱۔ درج ذیل سوالات کے تین سے چار سطروں پر مشتمل جوابات تحریر کریں۔

۱۔ مرزا محمد سعید کا حالیہ بیان کیجیے۔

۲۔ اللہ تعالیٰ نے انسان کو کن نعمتوں سے نوازا ہے؟ چند ایک تحریر کریں (حوالہ نظم حمد)

۳۔ مرزا محمد سعید کی معرکتہ الآرا کتاب کا نام اور مرتبہ تحریر کیجیے۔

۴۔ نظم حمد کا مرکزی خیال تحریر کریں۔

۵۔ خاکہ نگاری کی تعریف تحریر کریں۔

۵

سوال نمبر ۲۔ جس کا کام اسی کو سا جھے کہانی تحریر کیجیے۔

۱۰

سوال نمبر ۳۔ متن کی روشنی میں درست جواب پر نشان لگائیں۔

۱۔ مرزا محمد سعید کی عزیز داری کس شخصیت سے تھی؟

الف۔ سر سید احمد خان ب۔ شیخ عبدالقادر ج۔ شاہد احمد دہلوی د۔ مشاق احمد زاہدی

۲۔ یہ عالم اللہ تعالیٰ نے کس چیز سے بھر دیا ہے؟

الف۔ رنگ و بو سے ب۔ مخلوقات سے ج۔ ان سب سے د۔ جمادات و نباتات سے

۳۔ شاہد احمد دہلوی کی تاریخ پیدائش ہے؟

الف۔ ۱۹۰۴ء ب۔ ۱۹۰۵ء ج۔ ۱۹۰۶ء د۔ ۱۹۰۷ء

۴۔ حفیظ جالندھری کی ایک قابل قدر تخلیق ہے

الف۔ قومی ترانہ ب۔ جینٹی نامہ ج۔ سوز و ساز د۔ شاہ نامہ اسلام

۵۔ پروگرام دانش کدہ میں کتنے دانشور بلائے جاتے تھے؟

الف۔ چار ب۔ تین ج۔ دو د۔ سات

۶۔ نظم کے لغوی معنی ہیں؟

الف۔ تنظیم کے ب۔ لڑی کے ج۔ ترتیب کے د۔ تنظیم اور ترتیب کے

۷۔ شاہد احمد دہلوی نے۔۔۔۔۔ کے مشورے پر خاکہ نگاری شروع کی

الف۔ ڈاکٹر جمیل جالبی ب۔ حفیظ جالندھری ج۔ حالی د۔ احسان دانش

۸۔ مرزا محمد سعید کے بقول انسان کس لئے کام کرتا ہے؟

الف۔ شہرت ب۔ دولت ج۔ عزت و وقار د۔ شہرت اور دولت

۹۔ غزل لفظ ہے ؟

الف۔ فارسی کا ب۔ عربی کا ج۔ اردو کا د۔ ہندی کا

۱۰۔ ذات باری تعالیٰ کی شان کہاں نظر آتی ہے؟

الف۔ سرد و گرم میں ب۔ خشک و تر میں ج۔ ان سب میں د۔ اجالے اور تاریکی میں

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Urdu

Worksheet No: 2

( Week 3) April 2020

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۔

(صفحہ نمبر 10۳7)

(نصاب: نعت۔ شاعر: احسان دانش)

Day 1: شاعر کا تعارف اور نظم کا بغور مطالعہ کرتے ہوئے درج ذیل سوالات کے تین سے چار سطروں پر مشتمل جوابات تحریر کیجیے۔

۱۔ نعت کے پہلے شعر میں حضور ﷺ کی کون سی صفات بیان کی گئی ہیں؟ صفحہ نمبر 8

۲۔ نعت کے دوسرے شعر کے مطابق کس کو سکون ملا ہے؟ صفحہ نمبر 8

۳۔ شاعر کے نزدیک حضور ﷺ کا کیا پیغام ہے؟ صفحہ نمبر 8

۴۔ احسان دانش کے حالات زندگی تحریر کیجیے۔ (پیرا گراف ۱۔) صفحہ نمبر ۷

۵۔ احسان دانش کی اہم تصانیف لکھیے۔ (پیرا گراف ۲۔) صفحہ نمبر ۷

۶۔ احسان دانش کی شاعری کی خصوصیات کے بارے میں تین سطریں تحریر کیجیے۔ (پیرا گراف ۳۔) صفحہ نمبر ۷

(قواعد و انشا صفحہ 107)

خاکے کی مدد سے ”کوئے کا انتقام“ کہانی تحریر کیجیے

Day 2

سوال نمبر ۴۔ اعراب لگائیے۔ صفحہ نمبر 9

Day 3

سوال نمبر ۵۔ الفاظ کو جملوں میں استعمال کیجیے۔ (نعت سے معنی تلاش کر کے) صفحہ نمبر 4

سوال نمبر ۶۔ الفاظ کے معنی لکھیے۔ نعت سے تلاش کیجیے۔ صفحہ نمبر 4

سوال نمبر ۷۔ مناسب لفظ چن کر جملہ مکمل کیجیے۔ صفحہ نمبر 4

سوال نمبر ۸۔ کالم ملائیے۔ صفحہ نمبر 5

مطلع، مقطع، قافیہ اور ردیف کی تعریف تحریر کیجیے۔

Day 4

نعت کے ہر شعر کے قافیہ ترتیب وار تحریر کیجیے۔

شاعر کا تعارف اور نظم کا بغور مطالعہ کرتے ہوئے کم از کم 20 MCQ's تلاش کر کے تحریر کیجیے

Day 5

(نظم کی مشق میں دیے گئے MCQ's تحریر نہ کیجیے)

# ST. MARY'S ACADEMY

## CLASS 10

( Week 4) April 2020

(نصاب: سبق: نظریہ پاکستان۔ مصنف: ڈاکٹر غلام مصطفیٰ خان) (صفحہ نمبر 21 تا 27)

سبق کا بغور مطالعہ کرتے ہوئے درج ذیل سوالات کے تین سے چار سطروں پر مشتمل جوابات تحریر کیجیے۔ Day one

۱۔ مسلمانوں کو اپنے دینی معاملات میں اپنی آزادی کب ختم ہوتی نظر آئی؟

۲۔ علامہ اقبال نے مسلمانوں کے لیبیا لگ وطن کا مطالبہ کب اور کہاں کیا؟

(قواعد و انشا صفحہ 105) ”دودھ میں پانی“ کہانی تحریر کیجیے

Day .2

(قواعد و انشا صفحہ 88) دیے گئے اشاروں کی مدد سے ڈھائی سو سے تین سو الفاظ پر مشتمل مضمون تحریر کیجیے۔

Day.3

عنوان: تندرستی ہزار نعمت ہے۔

اشارات ۱۔ مغلی کا مقابلہ ۲۔ تندرستی اور صحت

۳۔ زندگی کا حرا ۴۔ تندرست جسم اللہ کی نعمت

۵۔ تندرستی کی حفاظت

سوال نمبر ۵۔ درست اور غلط جملوں کی نشان دہی۔ (صفحہ نمبر 26 تا 27)

Day 4

سوال نمبر ۶۔ کالم ملائیے۔ (صفحہ نمبر 27)

☆ سبق میں مشکل الفاظ کی نشاندہی کیجیے اور لغت سے معنی تلاش کیجیے۔

سبق ”نظریہ پاکستان“ اور مصنف ”ڈاکٹر غلام مصطفیٰ“ کے تعارف کا بغور مطالعہ کیجیے اور کم از کم 25 MCQ's تلاش کر کے تحریر کیجیے

Day .5

(سبق کی مشق میں دیے گئے MCQ's تحریر نہ کیجیے)

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

ETHICS

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Ethics

Assessment No.1

Total Marks: 25

Q.1 Circle the correct option i.e. A/B/C/D. Each part carries one mark.

(i) The key to accountability in human is:

- |               |            |
|---------------|------------|
| A. Heart      | B. Brain   |
| C. Conscience | D. Insight |

(ii) The most precious asset of human is:

- |           |             |
|-----------|-------------|
| A. Health | B. Brain    |
| C. Time   | D. Morality |

(iii) To carry big boxes in Railway compartments

- |               |           |
|---------------|-----------|
| A. Right      | B. Wrong  |
| C. Compulsion | D. Orator |

(iv) The Father of Aristotle was a:

- |                      |           |
|----------------------|-----------|
| A. Teacher           | B. Doctor |
| C. Religious Scholar | D. Orator |

Q2 Answer the following questions in 3 to 4 lines. (7x3=21)

Write short answers of the given questions.

(i) Define accountability?

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(ii) What does nature teach us regarding time?

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---

(iii) What type of wealth is time?

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# ST. MARY'S ACADEMY

## CLASS 10

(iv) Why manners are necessary for society?

(v) What do manners give to an individual?

(vi) What was the Theory of Gotam Buddh about this world?

(vii) How some bad customs become the part of society?

# ST. MARY'S ACADEMY

## CLASS 10

(viii) Name three types of self-control in Jainism.

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ST. MARY'S ACADEMY

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Ethics

Worksheet No: 2

Q1 -Fill in the blanks.

- 1- The fear of ..... stops man from doing bad acts.
- 2- According to the .....religions one is to accept the law of the superior being.
- 3- Gautama Buddha was born in .....B.C at .....
- 4- A lot of rich people take sleeping ..... when going to bed.
- 5- Prayers are a great ..... support.
- 6- Religion allow certain things and impose.....on others.
- 7- Sin and ..... has been attached to man right from the beginning.
- 8- The opposition to laws in a country is punished according to the .....of the country.
- 9- The roots of sins and crime reach the depth of human .....
- 10 ..... play a central role in stopping sins and crimes.

Q2-Write short answers of the given questions.

(1) Name three types of self-control in Jainism.

---

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---

---

(2) Define accountability?

---

---

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(3) What are Ethics to use mobile Phone?

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# ST. MARY'S ACADEMY

## CLASS 10

(4) What is Ahensa?

(5) Name any three books written by Kant?

(6) What does nature teach us regarding time?

(7) What type of wealth is time?

# ST. MARY'S ACADEMY

## CLASS 10

(8) Why manners are necessary for society?

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---

(9) What do manners give to an individual?

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---

(10) What was the Theory of Gotham Buddha about this world?

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ST. MARY'S ACADEMY

CLASS 10

CLASS 10

ISLAMIIYAT

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Islamiyat

Assessment No: 1

Total Marks: 15

(05) ہر سوال کے دیئے ہوئے چار ممکنہ جوابات میں سے درست جواب پر ( ) کا نشان لگائیے۔

- (1) اللہ تعالیٰ نے کسی آدمی کے دل نہیں بنائے  
(الف) دو (ب) تین (ج) چار (د) پانچ
- (2) اللہ تعالیٰ نے ان پر بھیجی  
(الف) ہوا (ب) بجلی (ج) لعنت (د) روشنی
- (3) طہارت کے لغوی معنی ہیں۔  
(الف) پاک ہونا (ب) وضو کرنا (ج) غسل کرنا (د) خوشبو لگانا
- (4) یہ تمہارے بارے میں کرتے ہیں۔  
(الف) بخل (ب) گستاخانہ باتیں (ج) اچھی باتیں (د) غصہ
- (5) جیسے کسی کو خوشی آرہی ہو۔  
(الف) موت سے (ب) کمزوری سے (ج) ڈر سے (د) خوف سے

(10) درج ذیل سوالات کے مختصر جوابات تحریر کریں۔

- (1) ظہار کسے کہتے ہیں؟
- (2) متنبی کسے کہتے ہیں۔
- (3) کنار کے لشکر اور یہود نے کیا چال چلی؟
- (4) مومنین کی آزمائش کس طرح کی گئی؟
- (5) جہاد میں رکاوٹ ڈالنے والے کون لوگ تھے؟

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Islamiyat

Worksheet No: 2

ہر سوال کے دیئے ہوئے چار ممکنہ جوابات میں سے درست جواب پر ( ) کا نشان لگائیے۔

- (1) تمہارے لیے رسول کی زندگی ہے۔  
(الف) صحیح طریقہ (ب) بہترین نمونہ (ج) نیکی کی راہ (د) کامل عبادت
- (2) اللہ تعالیٰ بچوں کو بدلہ دے گا ان کی۔  
(الف) نیکی کا (ب) خیرات کا (ج) اچھائی کا (د) سچائی کا
- (3) مسلمانوں میں سے بعض نے اپنی پوری کردی۔  
(الف) قسم (ب) نذر (ج) بات (د) سوچ
- (4) ایک گروہ کو تم نے قتل کر دیا اور دوسرے گروہ کو تم نے۔  
(الف) چھوڑ دیا (ب) بھگا دیا (ج) راضی کر لیا (د) قید کر لیا
- (5) غزوہ احزاب کے بعد بعد عہد کی سزا دی گئی  
(الف) منافقین کو (ب) کفار کو (ج) بنو قریظہ کو (د) اہل کتاب کو
- (6) اور اس کے لیے ہم نے تیار کر رکھی ہے۔  
(الف) عزت کی روزی (ب) جنت (ج) سواری (د) عزت کی جگہ
- (7) اللہ تو یہی چاہتا ہے کہ اے اہل بیت النبی ﷺ تم سے دور کر دے ہر قسم کی۔  
(الف) برائی (ب) تکلیف (ج) ناپاکی (د) آزمائش
- (8) اور یاد رکھو جو تمہارے گھروں میں پڑھی جاتی ہیں۔  
(الف) اللہ کی آیات (ب) اللہ کی باتیں (ج) قرآن کی سورتیں (د) حدیثیں
- (9) جو کوئی تم سے اللہ اور اس کے رسول ﷺ کی فرمانبرداری ہے گی اور نیک عمل کرے گی اس کو ہم اجر دیں گے۔  
(الف) تین گنا (ب) دو گنا (ج) چار گنا (د) ایک گنا
- (10) انہیں اتار دیا۔  
(الف) محلوں سے (ب) ٹھکانوں سے (ج) قلعوں سے (د) گھروں سے

# ST. MARY'S ACADEMY

## CLASS 10

حصہ دوم

درج ذیل سوالات کے مختصر جوابات تحریر کریں۔

- (1) مسلمانوں نے دشمن کی افواج کو دیکھ کر کن خیالات کا اظہار کیا۔
  - (2) کفار کو کیسے ناکام لوٹنا پڑا۔
  - (3) جس زمین پر تم نے قدم نہیں رکھا سے کیا مراد ہے؟
  - (4) اللہ اور رسول ﷺ کو چاہنے والی ازواج کیلئے اللہ نے کیا وعدہ فرمایا ہے؟
  - (5) ازواج مطہرات کو ان کے اعمال پر جزا و سزا سے متعلق فرمان الہی لکھیں۔
  - (6) ازواج مطہرات کو سورۃ احزاب میں کیا خاص احکام ارشاد فرمائے گئے۔
  - (7) اس سبق کی آیات کے حوالے سے بتائیے کہ اللہ تعالیٰ نے ازواج النبی ﷺ کو کون سی دو باتوں میں سے ایک کو اختیار کرنے کے بارے میں حکم دیا ہے۔
  - (8) ان آیات میں اللہ تعالیٰ نے رسول ﷺ کی ازواج کو کن احکام اور آداب کی تلقین فرمائی۔
- احادیث نمبر 14, 15 تحریر کریں۔
- نوٹ: تمام کام سکول کی میٹ کا پیپر تحریر کریں۔

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

ENGLISH

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: English

Assessment No.1

Total Marks: 25

1. Fill in the blanks using past indefinite or past continuous tense.

03

- i) What \_\_\_\_\_ (you/do) when I \_\_\_\_ (call) you last night.
- ii) I \_\_\_\_ (sit) in the café when you \_\_\_\_\_ (called) me.
- iii) When you (arrive) at the bus station, who \_\_\_\_\_ (be) there?

2. Give meanings of the following words:

03

guilty of,          commandment,          transcends

3. Identify the underlined words as concrete or abstract noun.

03

- i) She puts in much effort into her studies as she wants to score good marks
- ii) Keep the balls in that basket.
- iii) He did not take good care of his pet.

4. Answer the following questions.

06

- i) Why did non- Muslims trust the Holy Prophet (P.B.U.H)?
- ii) When does Chinese New Year start?

5. Write down the theme of the lesson Chinese New Year.

03

6. Write down an essay of 200 -250 words on 'Importance of Dictionary '.

05

7. Change the following narrations. 02

- i) He said ,” I am unwell”.
- ii) Afshan said,” I am sewing mother’s shirt.”



# ST. MARY'S ACADEMY

## CLASS 10

i. What is the lesson as poet describe?

ii. Who will conquer?

iii. When will your courage appear?

### STANZA (B)

Once or twice, though you should fail,  
Try, try again.  
If you would at last prevail,  
Try, try again.  
If we strive, 'tis no disgrace,  
Though we do not win the race;  
What should you do in that case?  
Try, try again.

#### Questions:

i. Who wrote this poem?

ii. What do you do if you fail?

iii. What should you do if you did not win the race?

### STANZA (C)

If you find your task is hard,  
Try, try again.  
Time will bring you your reward,  
Try, try again.  
All that other folk can do,  
Why, with patience, should not you?  
Only keep this rule in view, Try, try again.

#### Questions:

i. Why is the poet repeating the sentence 'try again'?

ii. What is the reward of time as above mentioned?

iii. Which rule should we keep in view?

## WEEK 3 (Day 3)

1. Read the poem again and answers the questions 1\_3 given in Ex. A pg: 29.

2. Find the synonyms of the following words.

courage, conquer, disgrace, hard, reward

### 3. GRAMMAR

# ST. MARY'S ACADEMY

## CLASS 10

### Poetics Devices

*They are essential tools that a poet uses to create rhythm, enhance a poem's meaning, or intensify a mood or feeling in the poem. They are simile, alliteration, imagery, metaphor, personification etc*

### Simile

*Definition: A simile is a figure of speech that compares two different things in an interesting way.  
... An example of a simile is: She is as innocent as an angel.*

*As cute as a kitten      As happy as a clam      As light as a feather      As blind as a bat*

*As bold as brass*

Read the notes given above and do the EX: B & C given on pg: 30 , 31.

### WEEK 3 (Day 4)

1. Answer the questions 4-6 of EX. A pg: 29.
2. Write a paragraph on "Hardwork is the Key to Success." (200-250 words) Do add at least 3 relevant quotations as well.

### Tips to write a good paragraph

*Clear topic sentence that shows the main idea*

*Adequate supporting details e.g. examples, illustration, evidence etc. to develop the main idea*

*Effective concluding sentences*

### WEEK 3 (Day 5)

1. Revise the topic Pronoun and Personal Pronoun then do the EX: A & B given on pg: 32.
2. Go through the topic The Comparison of Adjective from your grammar book pg: 155 then do the EX: C on pg: 33 and EX: D pg: 34 of your Literature Text Book.
3. Use the following Phrasal Verbs in your own sentences so that they convey their meanings.

Care for

Dear to

Careful about

Conscious of

Complaint against

Control over

Confidence in

Dear to

# ST. MARY'S ACADEMY

## CLASS 10

Congratulate on

Depend on

### WEEK 4 (Day 1)

#### **UNIT 04: FIRST AID**

1. Read the lesson thoroughly and write down the Theme of lesson 4 given on page 41.

2. Write down the meanings of the following words.

accessible, adhesive, antibiotic, infection, ingredients, minor, ointment,  
rinse, tweezer

#### **3. PREFIXES**

Recall the topic prefix and suffixes and do the EX: B.pg:43

4. Solve the EX: A on book pg: 43.

### WEEK 4 (Day 2)

1. Read the Unit 04 again to answer the following questions.

- What do you mean by First Aid?
- What is the importance of knowledge of 'First Aid' in crisis management?
- You should not keep checking if the bleeding has stopped. Why?
- Why is it necessary to keep away soap from the wound?
- How is an antibiotic cream or ointment good in healing the wound?

2. Complete the figure given on pg: 45

### WEEK 4 (Day 3)

#### **1. GRAMMAR**

##### Adverb Phrase

*An adverb phrase is simply a group of two or more words that function as an adverb in a sentence. Just as an adverb can modify a verb, adjective or another adverb, an adverb phrase of more than one word can further describe a verb, adverb, or adjective.*

Examples:

I parked the car.

I parked the car here.

# ST. MARY'S ACADEMY

## CLASS 10

I parked the car right here under the bridge.

The first sentence does not contain an adverb or adverb phrase at all. The second sentence contains the adverb "here" to describe where the car was parked. The final sentence of the group contains a longer, more informative adverbial phrase.

2. Write down the definition of Adverb and Adverb phrase by adding three examples.

3. Do the exercise A and B on pg: 46.

### WEEK 4 (Day 4)

#### NARRATION

1. Review the narration verb chart given in the previous worksheet # 09 and do the indirect speech sentence 11- 20 on pg: 171 of your Grammar Book.

2. Learn an essay on topics by adding two relevant quotes in each topic as well.

-  Television
-  Village Life

### WEEK 4 (Day 5)

1. Write down a comprehensive essay of about 200-250 words on topic: **Physical Fitness**. Do include two relevant quotations.

#### 2. Comprehension of a Passage

*Comprehension reading requires the reader to understand a certain part of a passage or a paragraph. The main purpose of comprehension reading is to understand the meaning that the given passage implies and try to answer the comprehension questions accordingly.*

To answer these questions clearly, we should:

- Read the passage carefully till we understand it well.
- Understand the given questions clearly.
- Answer the questions in the same tense and person as used in the passage.
- Try to link the question to your answer
- Never provide your opinion as answers, base your answer on facts.
- The passage will never be so easy, so it is vital that you connect all the links together
- Craft your answers clearly, with perfection
- Never move out from the original question, answer it precisely

Keeping all the instructions in mind, do the Comprehension exercise 1 and 2 from your Grammar Book pg: 38.

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

MATHS

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Mathematics

Assessment No.1

Total Marks: 25

### Section –I

Q1- Choose the correct answer

5

- i- The number of terms in a standard quadratic equation  $ax^2 + bx + c = 0$  is  
(a) 1 (b) 2 (c) 3 (d) 4
- ii- The number of methods to solve a quadratic equation is  
(a) 1 (b) 2 (c) 3 (d) 4
- iii- Two linear factors of  $x^2 - 15x + 56$   
(a)  $(x - 7)(x + 8)$  (b)  $(x + 7)(x - 8)$   
(c)  $(x - 7)(x - 8)$  (d)  $(x + 7)(x + 8)$
- iv- Standard form of quadratic equation is  
(a)  $bx + c = 0$  (b)  $ax^2 + bx + c = 0$   
(c)  $ax^2 = bx$  (d)  $ax^2 = 0$
- v- The solution set of equation  $4x^2 - 16 = 0$  is  
(a)  $\{\pm 4\}$  (b)  $\{4\}$  (c)  $\{\pm 2\}$  (d)  $\pm 2$

### Section – II

$4 \times 5 = 20$

Q1- Write the quadratic equation in the standard form

$$\frac{x}{x+1} + \frac{x}{x+1} = 6$$

4

Q2- Solve by factorization :

(i)  $4 - 32x = 17x^2$

4

(ii)  $\frac{x+1}{x} + \frac{x}{x-1} = \frac{25}{12}$

4

Q3- Solve by completing square .

(i)  $lx^2 + mx + n = 0$

4

(ii)  $-x^2 + \frac{15}{2} = \frac{7}{2}x$

4

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: Mathematics

Worksheet No: 2

3<sup>rd</sup> WEEK

Ex. 1.2

Q2. Solve the following equations using quadratic formula

Quadratic Formula :

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

i-  $3x^2 + 8x + 2 = 0$

ii-  $\frac{3}{x-6} - \frac{4}{x-5} = 1$

iii-  $\frac{x+2}{x-1} - \frac{4-x}{2x} = 2\frac{1}{3}$

iv-  $\frac{a}{x-b} + \frac{b}{x-a} = 2$

v-  $-(l+m) - lx^2 + (2l+m)x = a$

vi-  $4x^2 - 14 = 3x$

vii-  $2 - x^2 = 7x$

viii-  $\sqrt{3}x^2 + x = 4\sqrt{3}$

ix-  $5x^2 + 8x + 1 = 0$

x-  $6x^2 - 3 - 7x = 0$

4<sup>th</sup> WEEK

Q. Choose the correct answer.

i- An equation is called quadratic equation, if its degree is

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

ii- An equation is called linear equation, if its degree is

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

iii- Solution set of  $25x^2 - 1 = 0$

# ST. MARY'S ACADEMY

## CLASS 10

(a)  $\left\{-\frac{1}{25}\right\}$  (b)  $\{\pm 5\}$  (c)  $\left\{\pm \frac{1}{5}\right\}$  (d)  $\left\{\frac{1}{25}\right\}$

iv-  $ax^2 + bx + c + 0$ , is pure quadratic equation, if

(a)  $a = 0$  (b)  $b = 0$  (c)  $c = 0$  (d)  $a = b$

v-  $ax^2 + bx + c = 0$  is linear equation, if

(a)  $a = 0$  (b)  $b = 0$  (c)  $c = 0$  (d)  $a = b$

### SHORT QUESTIONS

#### EX. 1.3

Q- Solve the following equations

i-  $2x^4 - 11x^2 + 5 = 0$

ii-  $2x^4 = 9x^2 - 4$

iii-  $3x^{-2} + 5 = 8x^{-1}$

iv-  $5x^{1/2} = 7x^{1/4} - 2$

v-  $(2x^2 + 1) + \frac{3}{2x^2+1} = 4$

vi-  $\frac{x}{x-3} + 4\left(\frac{x-3}{x}\right) = 4$

vii-  $\frac{4x+1}{4x-1} + \frac{4x-1}{4x+1} = 2\frac{1}{6}$

ST. MARY'S ACADEMY

CLASS 10

CLASS 10

Physics

# ST. MARY'S ACADEMY

## CLASS 10

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

Subject: Mathematics **Assessment No.1** Total Marks: 25

**Q) Fill in the blanks:**

**(1x7=7)**

1. \_\_\_\_\_ waves cannot travel through space.
2. Waves transfer \_\_\_\_\_
3. IF the mass of the bob of a pendulum is increased by a factor of 3, the period of the pendulum's motion will \_\_\_\_\_.
4. A spider detects its pray due to the \_\_\_\_\_ produced in the web.
5. The dark fringes on the screen of the ripple tank represent \_\_\_\_\_.
6. In transverse waves the portion of a wave which is above the mean position is called \_\_\_\_\_.
7. 7. A large ripple tank with a vibrator working at a frequency of 30 Hz produces 25 complete waves in a distance of 50 cm. The velocity of the waves is \_\_\_\_\_.

**Q Write short answers of the following questions.**

**(3x6=18)**

1. Do mechanical waves pass through vacuum? Explain
2. How damping progressively reduces the amplitude of oscillation?
3. Write down the different categories of waves.
4. A pendulum of length 0.99 m is taken to the Moon by an astronaut. The period of the pendulum is 4.9 s. What is the value of g on the surface of the Moon?
5. If the length of a pendulum is doubled, what will be the change in its time period?
6. Draw a transverse wave with amplitude of 2 cm and a wavelength of 4cm, Label a crest and trough on the wave.

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: *Physics*

Worksheet No: 2

### Week 3

- Choose the correct option:

- The number of vibrations or cycles of a vibrating body in one second is called its \_\_\_\_\_.  
a) Time period      b) frequency      c) amplitude      d) vibration
- Shock absorber in automobiles are one practical application of \_\_\_\_\_.  
a) damped oscillation      b) SHM      c) speed      d) diffraction
- The relation between velocity, frequency and wavelength is given by the equation \_\_\_\_\_.  
a)  $V = \lambda T$       b)  $V = ST$       c)  $V = f\lambda$       d)  $V = \lambda/f$
- The dark fringes on the screen of the ripple tank represent \_\_\_\_\_.  
a) Concave mirror      b) convex mirror      c) concave lens      d) convex lens
- In transverse waves the portion of a wave which is above the mean position is called \_\_\_\_\_.  
a) Crest      b) trough      c) displacement      d) diffraction

- Write Short answers of the following:

- What is ripple tank and vibrator?
- When is diffraction more prominent?
- What is S.H.M? Give the properties of S.H.M.
- A wave moves on a slinky with frequency of 4 Hz and wavelength of 0.4 m. What is the speed of the wave?
- A pendulum of length 0.99 m is taken to the Moon by an astronaut. The period of the pendulum is 4.9 s. What is the value of g on the surface of the Moon?

- Answer the following questions in detail:

- Prove that the motion of simple pendulum is S.H.M.
- Explain the following properties of waves with reference to ripple tank experiment.  
a) Reflection      b) refraction      c) diffraction

# ST. MARY'S ACADEMY

## CLASS 10

### Week 4

#### Q: Fill in the blanks:

8. \_\_\_\_\_ waves cannot travel through space.
9. Waves transfer \_\_\_\_\_
10. IF the mass of the bob of a pendulum is increased by a factor of 3, the period of the pendulum's motion will \_\_\_\_\_.
11. A spider detects its pray due to the \_\_\_\_\_ produced in the web.
12. In SHM the acceleration is always towards the \_\_\_\_\_.

#### Q : Write short answer of the following questions.

1. What is the displacement of an object in SHM, when the kinetic and potential energies are equal?
2. If the length of a pendulum is doubled, what will be the change in its time period?
3. Draw a transverse wave with amplitude of 2 cm and a wavelength of 4cm, Label a crest and trough on the wave.
4. Does increasing the frequency of a wave also increase its wavelength? If not, how are these quantities related?
5. At the end of a ripple tank 80 cm across, a 5 Hz vibrator produces waves whose wavelength is 40mm. Find the time the waves need to cross the tank.

#### Q: Write the detail answer of the question given below.

- 1 a.) Differentiate longitudinal and transverse waves with example.  
b). Define the following terms:
  - Vibration
  - Frequency
  - Amplitude
  - Time period

ST. MARY'S ACADEMY

CLASS 10

# CLASS 10

# BIOLOGY

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: *Biology*

**Assessment No.1**

Total Marks: 25

### Q1. Multiple choice questions:

- i) -----study structure and function of cell and cell organelles.  
a) Anatomy b) physiology c) cell biology d) histology
- ii) Study of interaction between organism and their environment is called-----  
a) socio- biology b) taxonomy c) parasitology d) environmental biology
- iii) study of insect is called -----  
a) immunology b) parasitology c) entomology d) anatomy
- iv) Study of biological processes using mathematical technique is called-----  
a) Biometry b) bio economics c) biophysics d) a&b
- v) Similarities between working principles of lever and limbs of human is studied in-----  
a) Biometry b) bio economics c) biophysics d) a&b
- vi) Calculation of cost value and profit value of animal and plants study in-----  
a) Biometry b) bio economics c) biophysics d) a&b
- vii) Liver transplantation is the study-----  
a) Medicine b) surgery c) physiology d) anatomy

### Q2. Short answers:

- i) Differentiate agriculture and horticulture

---

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- ii) Define biogeography

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

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

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- v) Define interdisciplinary sciences and differentiate between biometry and bioeconomics

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# ST. MARY'S ACADEMY

## CLASS 10

### Q1. Multiple choice questions:

- i) Gaseous exchange in plants occur through -----.  
a) Stomata    b) lenticels    c) cuticle of young plant    d) all
- ii) Gaseous exchange occur at -----level.  
a) One    b) two    c) three    d) four
- iii) The flap that guard the glottis (opening of larynx) is called -----  
a) Pharynx    b) epiglottis    c) trachea    d) none of these
- iv) The bronchi are present at -----  
a) Above chest cavity    b) below chest cavity    c) in the chest cavity
- v) Trachea and bronchi lined with -----  
a) Ciliated cells    b) glandular cells    c) ciliated and glandular cells

### Q2. short answers:

How wind pipe / trachea adapted to filter the inhaled air?

---

---

---

---

Define :

- a) bronchiole-----  
-----
- b) Diaphragm-----  
-----
- c) alveoli-----  
-----

Describe Gaseous exchange in

- a) woody stem & mature root-----  
-----  
-----
- b) aquatic plants-----  
-----

Differentiate between :

Stomata-----  
-----

# ST. MARY'S ACADEMY

## CLASS 10

&-lenticels-----  
-----

How voice box /larynx produce sound?

-----  
-----  
-----  
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ST. MARY'S ACADEMY

# ST. MARY'S ACADEMY

## CLASS 10

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

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

Subject: *Biology*

Worksheet No: 2

### 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

### BIOLOGYB-X Work Sheet-1 (chapter # 10 page#2, 3)

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

#### Multiple choice questions:

- i) -----type of reactions are responsible for energy production in cells.  
a) Hydrolysis b) reduction c) oxidation d) b & c.
- ii) The aquatic plants get the oxygen form -----  
a)  $O_2$  of  $H_2O$  b)  $O_2$  of dissolve in  $H_2O$  c)  $O_2$  of air d) all
- iii) Breathing is -----process.  
a) Mechanical b) biochemical c) a&b d) none of these
- iv) Gaseous exchange in plants occur through -----  
a) Stomata b) lenticels c) cuticle of young plant d) all
- v) Gaseous exchange occur at -----level.  
a) One b) two c) three d) four

#### Short answer:

- i) **Differentiate between**  
a) Stomata-----  
-----  
-----&lenticels-----  
-----  
----- b) breathing-----  
-----  
----- & cellular respiration-----  
-----
- ii) **Explain the term** cellular respiration-----  
-----  
-----  
-----
- iii) **Describe the fate of** oxygen and carbon dioxide during cellular respiration.  
-----  
-----

## CLASS 10

iv) **Describe Gaseous exchange in**

a) woody stem & mature root-----  
-----  
-----  
-----

b) aquatic plants-----  
-----  
-----  
-----

v) **Describe the behavior of stomata:**--a) during day time-----  
-----  
-----  
-----  
-----

b) night time -----  
-----  
-----  
-----

**Instructions:** read the page # 4, 5 and 6 also observe the diagram and then try to answer the following.

**Multiple choice questions:**

- i) Pulmonary vein contain ----- blood.
- a) Oxygenated b) deoxygenated c) both d) none of these
- ii) The breathing movement are -----
- a) Exclusively voluntary b) involuntary c) voluntary and involuntary d) exclusively voluntary
- iii) The flap that guard the glottis (opening of larynx) is called -----
- a) Pharynx b) epiglottis c) trachea d) none of these
- iv) The bronchi are present at -----
- a) Above chest cavity b) below chest cavity c) in the chest cavity
- v) Trachea and bronchi lined with -----
- a) Ciliated cells b) glandular cells c) ciliated and glandular cells

**Short answer:**

- i) **How trachea/respiratory passage filter or clean the inhaled air?**
- 
- 
- 
- ii) **How wind pipe / trachea adapted to filter the inhaled air?**
- 
- 
- 
- iii) **Write a note on voice box.**
- 
- 
-

# ST. MARY'S ACADEMY

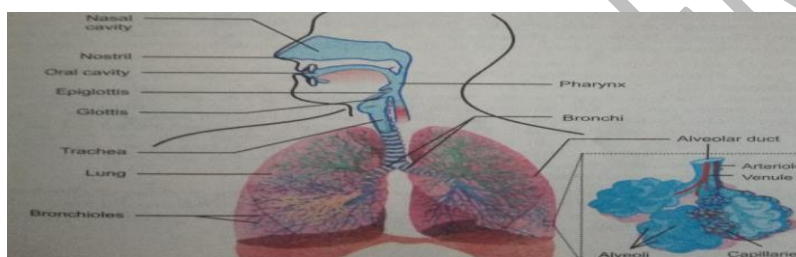
## CLASS 10

iv) Define : a) bronchiole-----  
-----

-----b) Diaphragm-----  
-----  
-----

b) alveoli-----  
-----  
-----

v) Describe the structure of lungs.-----  
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### BIOLOGY-X Work Sheet-3 (chapter # 10 page# 7, 8)

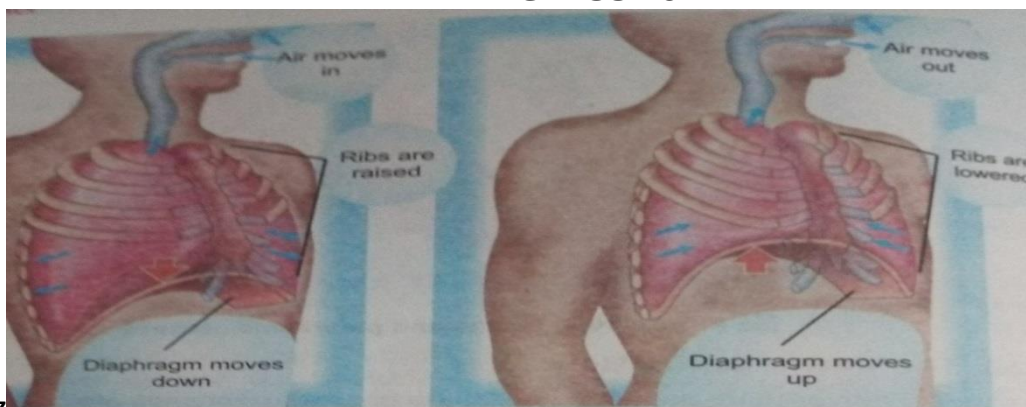
**Instructions:** read the page # 7, 8, observe the diagram and then answer the following.

#### **Multiple choice questions:**

- i) The partial pressure of oxygen is -----in blood as compared to environment.  
a) High b) low c) equal d) very high
- ii) The concentration of -----stimulate the respiratory center in brain (medulla) .  
a) Oxygen b) carbon dioxide c) carbon monoxide d) a & b.
- iii) Human breathe ----- times per minute in normal/resting conditions.  
a) 10-15 b) 15-20 c) 20-25 d) 25—30
- iv) During inspiration -----muscles below rib cage contract.  
a) Intercostal b) diaphragm c) smooth muscle d) b& c.
- v) The breathing movements are -----to large extent.  
a) Voluntary b) involuntary c) controlled d) none of these

# ST. MARY'S ACADEMY

## CLASS 10



Short answers:

i) Define :a) inhalation -----

---

b) Exhalation-----

----

ii) Describe the changes take place during breathing ,as shown in figure above .-----

-----  
-----  
-----  
-----

III) What percentage of oxygen, nitrogen and water vapours present in inhaled and exhaled air -----

-----  
-----  
-----

iv) How inhalation differ from exhalation?-----

-----  
-----  
-----

### BIOLOGY-X Work Sheet-4 (chapter # 10 page#11,12, 13)

**Instructions:** read the page #11, 12 and 13 and then try to answer the following.

**Multiple choice questions:**

i) -----can cause bronchitis.

a) Virus b) bacteria c) tar d) all

ii) Mild wheezing, fever, chills, and short of breath are symptoms of -----

# ST. MARY'S ACADEMY

## CLASS 10

a) Lung Cancer b) emphysema c) asthma d) bronchitis

iii) Bronchodilators are usually used in-----

a) Lung Cancer b) emphysema c) asthma d) all of these

iv) The surface area of lungs reduced greatly in-----

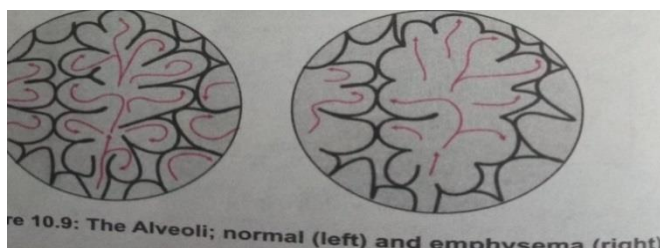
a) Pneumonia b) emphysema c) lung cancer d) asthma

v) -----are symptoms of pneumonia.

a) High fever b) shivering c) sputum production d) all

**Short answers:**

**I) Figure below shows the comparison between normal and emphysematic alveoli. Describe how emphysematic alveoli affect the individual's life processes.**



-----  
-----  
-----  
-----

ii) write a note on asthma.-----

-----  
-----  
-----

iii) Give causes and symptoms of pneumonia.-----

-----  
-----

iv) define: bronchitis-----

-----&

Chronic bronchitis-----

-----.

## BIOLOGY-X Work Sheet-5(chapter # 10 page#14, 15)

**Instructions:** read the page # 14, 15 and then try to answer the following.

**Multiple choice questions:**

i) World NO Tobacco Day observed on -----

a) 21 may b) 31 may c) 25 may d) 11 may.

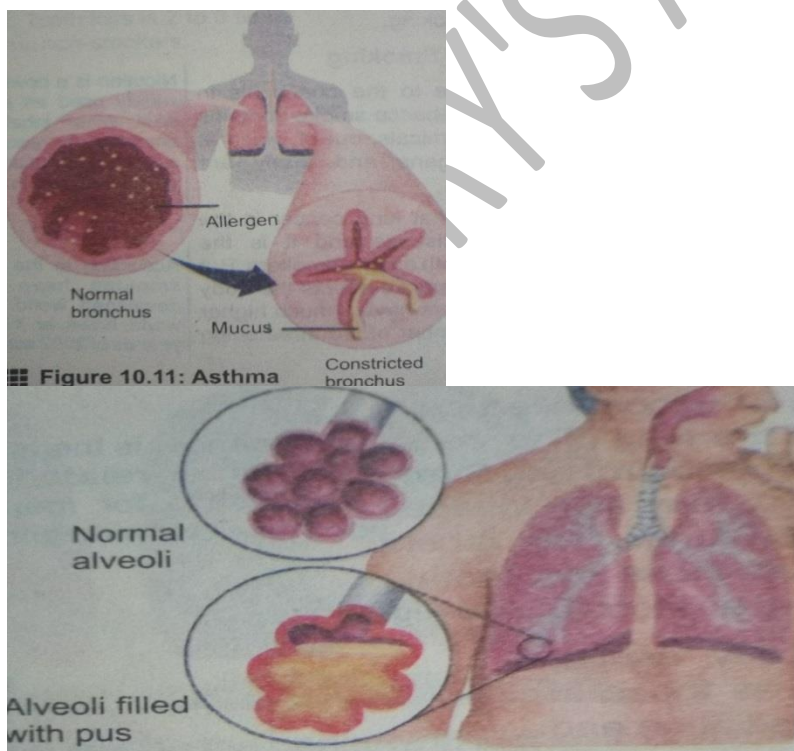
# ST. MARY'S ACADEMY

## CLASS 10

- ii) Passive smoking can increase the risk of heart disease by-----  
a) 20-30% b) 25-30% c) 30 -35% d) 35-40%
- iii) Smoking lead to cancer in -----  
a) Lungs b) kidney c) mouth d) all
- iv) The presence of carbon monoxide in blood -----  
a) Enhance/increase R.B.C b) Enhance/increase W.B.C c) decrease oxygen carrying capacity

Short answers:

- i) Differentiate : passive smoker-----  
-----& active smoker-----  
-----
- ii) Give causes and symptoms of lung cancer-----  
-----  
-----
- iii) Describe bad effects of smoking on human health and his social life.-----  
-----  
-----  
-----
- iv) Give symptoms ,causes of the following respiratory disorder shown in figure 10.11 & 10.10 below:



-----  
-----

# ST. MARY'S ACADEMY

## CLASS 10

### BIOLOGY-X Work Sheet-1 (chapter # 11 page#18-21)

**Instructions:** read the page # 18-21 and then try to answer the following.

#### Multiple choice questions:

- i) The maintenance of internal conditions of the body at equilibrium, is -----  
-----
- a) Thermoregulation b) osmoregulation c) homeostasis
- ii) If thermoregulation lost in living organism it can cause -----
- a) Sweating b) vomiting c) loss of enzyme action d) death
- iii) Carbon dioxide remove from -----
- a) Stomata b) young stem c) root hair d) all
- iv) Carnivorous plants secrete-----
- a) Resin b) gum c) latex d) mucilage
- v) Juicy fluid present in -----
- a) Hydrophytes b) mesophytes c) xerophytes d) halophytes

#### Short answers:

- i) Differentiate : guttation-----  
-----&  
Transpiration-----  
-----.
- ii) Describe three process/ways of homeostasis?-----  
-----  
-----  
-----
- iii) How homeostasis important to living organism.-----  
-----  
----- Also name some metabolic waste /excretory products in plants -----  
-----  
-----
- iv) Define and describe adaptations of: xerophytes-----  
-----  
-----  
-----and halophytes -----

# ST. MARY'S ACADEMY

## CLASS 10

- v) How hydrophytes differ from halophytes-----  
-----  
-----  
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### BIOLOGY-X Work Sheet-2 (chapter # 11 page#21-25)

**Instructions:** Read the page #21-25 and then try to answer the following.

#### **Multiple choice questions:**

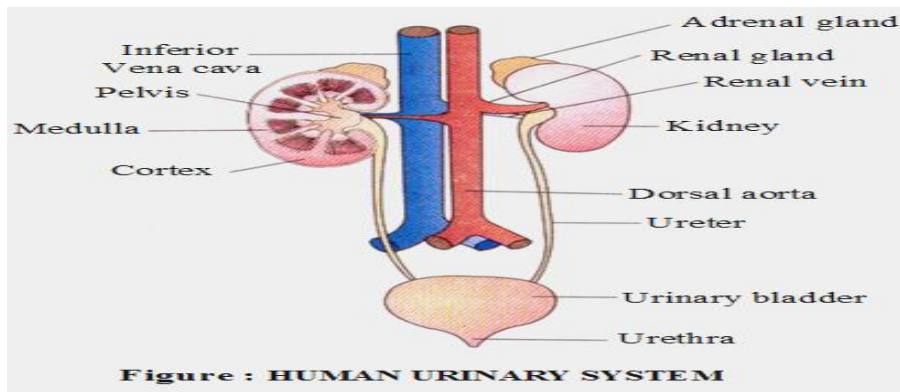
- i) -----wastes are also removed by sweating.  
a) Urea b) uric acid c) water d) all
- ii) Urine store temporarily in -----  
a) Ureter b) urethra c) urinary bladder d) kidney
- iii) Nerves enter the kidney through-----  
a) Renal cortex b) renal medulla c) hilus d) renal pelvis
- iv) -----form the base of the ureter.  
a) Renal pyramid b) nephron c) renal pelvis d) urinary bladder
- v) the capillary of the glomerulus arise from-----  
a) Afferent arteriole b) efferent arteriole c) renal artery d) renal vein.

#### **Short answers:**

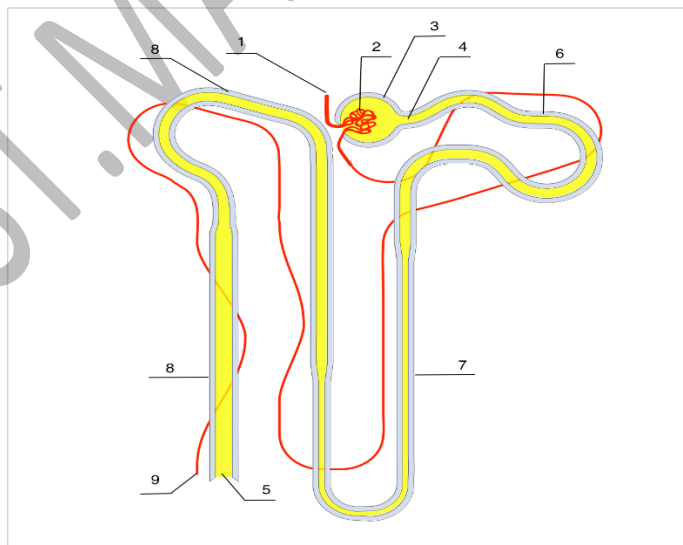
- i) Name and give function of the main organs which work for homeostasis-----  
-----  
-----  
-----
- ii) Trace and describe the urinary system of human. -----  
-----  
-----  
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# ST. MARY'S ACADEMY

## CLASS 10



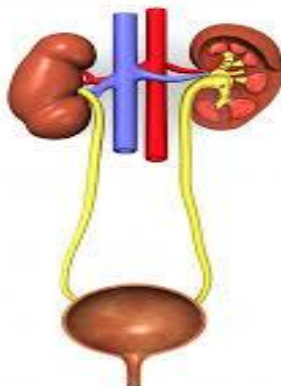
- iii) Describe the morphology and internal structure(anatomy) of human kidney.....
- iv) Describe the function of kidney or how kidney filter the blood(urine formation).....
- v) Define and describe the structure of nephron .Also label the figure shown below:



# ST. MARY'S ACADEMY

## CLASS 10

- vi) Define osmoregulation .Also describe how kidney play role in osmoregulation.-----  
-----  
-----  
-----  
-----
- vii) Label the different parts/structure of human urinary system :



### BIOLOGY-X Work Sheet-3 (chapter # 11 page#26-29)

**Instructions:** Read the page #26-29 and then try to answer the following.

#### **Multiple choice questions:**

- i) During summer which function usually kidney has to do?  
a) Less filtration b) increased reabsorption c) a & b d) less reabsorption
- ii) Excess uric acid in blood can cause-----  
a) Kidney failure b) kidney stone c) heart failure d) hypertension
- iii) Pain in lower abdomen, vomiting, frequent urination and foul smelling urine with blood and pus are symptoms of-----  
a) Kidney failure b) kidney stone c) diabetes d) hypertension
- iv) -----invented the surgical removal of stone from urinary bladder.  
a) Abu al Qasim al zahrawi b) abu nasr al farabi c) ibn al Haytham d) ali ibn issa
- v) Diabetes mellitus, hypertension and drug overdose can lead to -----  
a) Angina b) kidney failure c) diarrhoea d) constipation

# ST. MARY'S ACADEMY

## CLASS 10

vi) ----- type of dialysis that can be done at home but must be done every day.

a) Peritoneal dialysis b) hemodialysis c) a & b

viii) -----problem can happen with kidney transplant.

a) Rejection reaction b) infection & bone problem c) ulcers d) all

Short answers:

i) How kidney stone form. Also give its causes, symptoms and treatment.-----

ii) Write a note on kidney failure-----

iii) Define : dialyzer -----

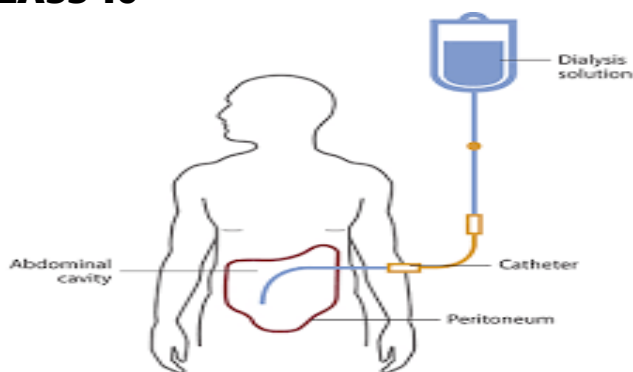
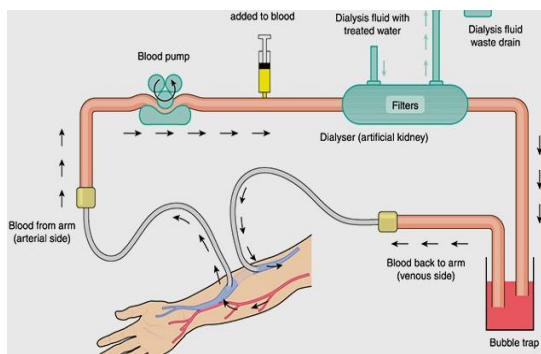
Glomerular filtrate-----

Succulent organs-----

iv) Why kidney transplantation considered as a sensitive issue-----

v )With the help of figure shown below differentiate hemodialysis and peritoneal dialysis.

## CLASS 10



i) Differentiate : a) nervous coordination-----  
-----  
-----&

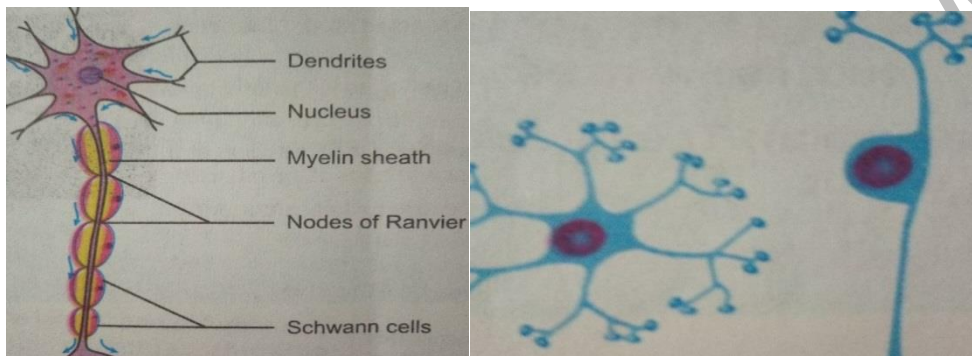
# ST. MARY'S ACADEMY

## CLASS 10

Chemical coordination-----  
-----  
-----

b) Receptor-----  
-----&  
Effector-----  
-----  
-----.

ii) Name and define three type nerve cell shown in the figure below:



-----  
-----  
-----  
-----.

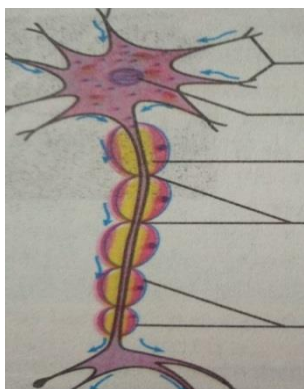
iii) Define : sensory nerve-----  
-----  
-----  
-----motor nerve-----  
-----& mixed nerve-----  
-----  
-----

iv) Identify the type of neuron or nerve cell shown in the figure below and describe its structure.  
Also label its different structure.

Name -----  
-----structure-----  
-----  
-----  
-----

# ST. MARY'S ACADEMY

## CLASS 10



### BIOLOGY-X Work Sheet-2 (chapter # 12 page#37-41)

**Instructions:** Read the page #37-41 and then try to answer the following.

#### **Multiple choice questions:**

- i) Brain is made of -----neurons which have many dendrites and axon.  
a) Sensory b) motor c) interneuron d) all
- ii) Fluid within ventricle and central canal is -----  
a) CSF b) plasma c) water d) CSL
- iii) If a person can remember previous event but cannot remember new one as memory, then its -----part is damaged.  
a) Cerebrum b) hippocampus c) medulla oblongata d) all
- iv) Growth hormone releasing factor which control the release of growth hormone from pituitary gland is released from -----  
a) Cerebrum b) cerebellum c) pons d) hypothalamus
- v) The white matter of nervous system consist -----  
a) Non-myelinated axon b) myelinated axon c) myelinated axon & cell body d) all
- vi) Fight and flight response are controlled by ----- nervous system.  
a) Sympathetic b) para sympathetic c) somatic d) all

#### **Short answers:**

- i) Give function of : thalamus-----  
-----&  
Hypothalamus-----  
-----

# ST. MARY'S ACADEMY

## CLASS 10

ii) Differentiate between white and grey matter of brain and spinal cord-----

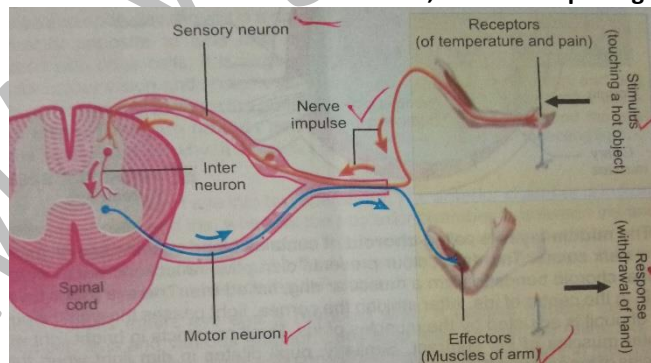
iii) Name and give function of lobes of cerebrum-----

iv) Differentiate sympathetic and parasympathetic nervous system-----

v) Give function of a) pons-----

b) mid brain-----

vi) Define and differentiate reflex action and reflex arc ,with the help of figure shown below:



vii) label the different parts of brain in figure shown below and give function:

# ST. MARY'S ACADEMY

## CLASS 10



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### BIOLOGY-X Work Sheet-3 (chapter # 12 page#41-45)

**Instructions:** Read the page #41-45 and then try to answer the following.

#### Multiple choice questions:

- i) There are about -----million rods in human eye.  
a) 11.5 b) 12.5 c) 10.5 d) 13.5
- ii) -----dip in the retina opposite to lens, packed with cone cells.  
a) Blind spot b) optic disc c) fovea d) all
- iii) The pathway followed by nerve impulse for reflex action called-----  
a) Dorsal route b) ventral route c) reflex arc d) reflex action.
- iv) There are no rods and cone -----  
a) Blind spot b) optic disc c) fovea d) all
- v) A person with convex lens in his glasses can see clearly-----  
a) Near objects b) distant objects c) a&b d) all

#### Short answers:

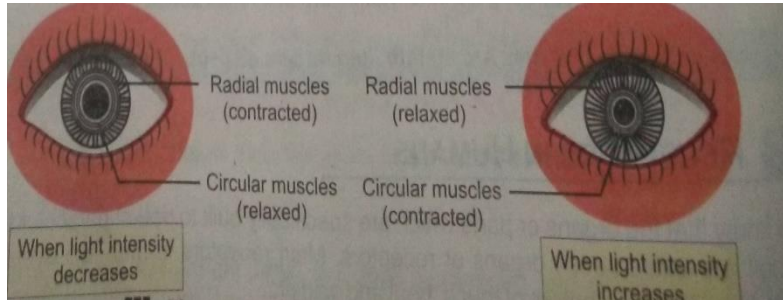
- i) Define: a) sclera -----  
-----  
-----
- b) cornea -----  
-----  
-----
- c) iris -----  
-----  
-----

# ST. MARY'S ACADEMY

## CLASS 10

d)pupil-----

ii) Describe how size of pupil is changed in a) dim light and b) bright light.



iii) differentiate :a) aqueous and vitreous humour-----

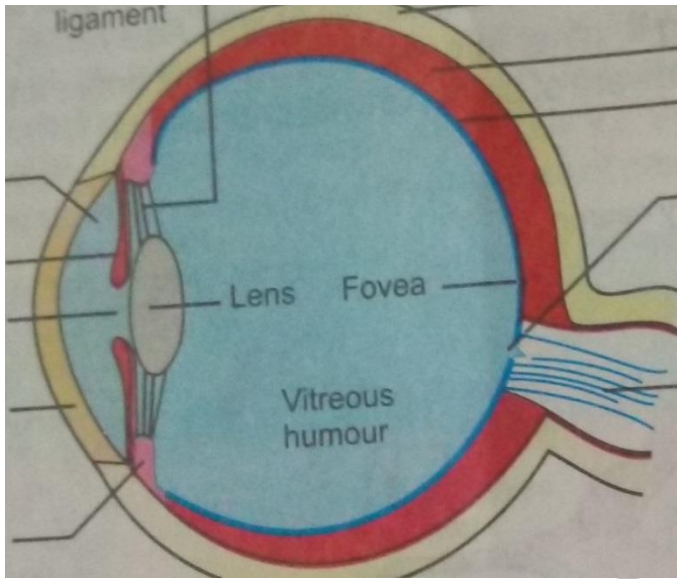
b)rhodopsin and iodopsin-----

iv) write a note on hypermetropia-----

v) Name and describe function of different parts of human eye.

ST. MARY'S ACADEMY

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St. Mary's Academy

# ST. MARY'S ACADEMY

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**Instructions:** Read the page #45-47 and then try to answer the following.


### Multiple choice questions:

- i) Auditory canal ends in -----  
a) Pinna b) cochlea c) ear drum d) stapes
- ii) Apart from hearing what other major body function is performed by the ear?  
a) Hormone secretion b) reduction in nerve pressure c) Body balance d) all of these
- iii) -----made several improvement to the eye surgery.  
a) Bu ali sina b) umar al jahiz c) ibn al Haytham d) ali ibn Isa
- iv) -----is present in the center of inner ear.  
a) Oval window b) vestibule c) malleus d) cochlea
- v) -----regulate the air pressure on either side of the ear drum.  
a) Oval window b) Eustachian tube c) malleus d) cochlea

### Short answers:

- i) Define : a) pinna -----  
-----  
-----  
b) Ear drum -----  
-----  
----- & -----  
c) Oval window -----  
-----  
-----
- ii) How ear help in maintaining the balance of the body. -----  
-----  
-----  
-----  
-----
- iii) Trace out the process of hearing. -----  
-----  
-----  
-----
- iii) How nerve impulse generated inside the ear. -----  
-----  
-----  
-----  
-----  
-----

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A diagram of a coiled cable, likely representing a power cord or data cable. The cable is shown in a coiled state, with a label pointing to the coiled section and another label pointing to the straight section of the cable.

[illegible]

Pinna

Auditory canal

Tympanum (ear drum)

Round window

Blank lined paper for writing.

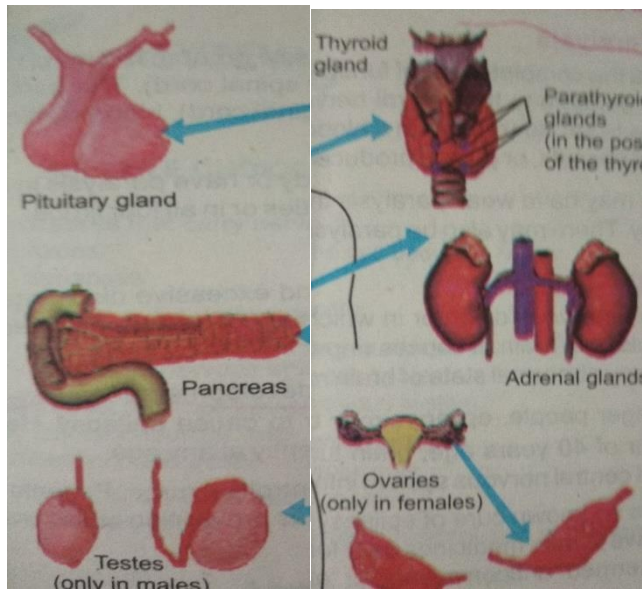
- i) Define : a) exocrine gland
- b) endocrine gland
- ii) give location and function of : a) pituitary gland
- b) thyroid gland
- .iii) Differentiate: a) negative feedback
- and positive feed back

# ST. MARY'S ACADEMY

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v) Enlist functional and vascular disorders of the nervous system.-----

vi) Endocrine glands in human body shown in the figure below. Give their role they play in life processes.



# ST. MARY'S ACADEMY

## CLASS 10

### BIOLOGY-X Work Sheet-5 (chapter # 12 page#57-60)

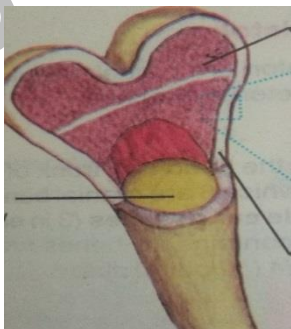
**Instructions:** Read the page #57-60 and then try to answer the following.

#### Multiple choice questions

- i) -----is the function of the skeleton.  
a) Support      b) movement      c) protection      d)all
- ii) Intervertebral disc made up of -----  
a) Hyaline cartilage    b) fibrous cartilage    c) elastic cartilage    d) a&b
- iii) -----is the hardest connective tissue.  
a) Cartilage      b) bone      c) muscles      d) blood
- iv) Adult skeleton has ----- hard bones.  
a) 203      b) 206      c)209      d)212
- v) Blood vessel do not enter -----  
a) Compact bone    b) spongy bone    c) cartilage    d) all

#### Short answers:

- i) Differentiate a) movement -----  
-----&  
Locomotion-----  
-----  
b) Hyaline cartilage -----  
-----&  
Fibrous cartilage -----  
-----
- ii) Label and define the types of bone shown in the figure:



# ST. MARY'S ACADEMY

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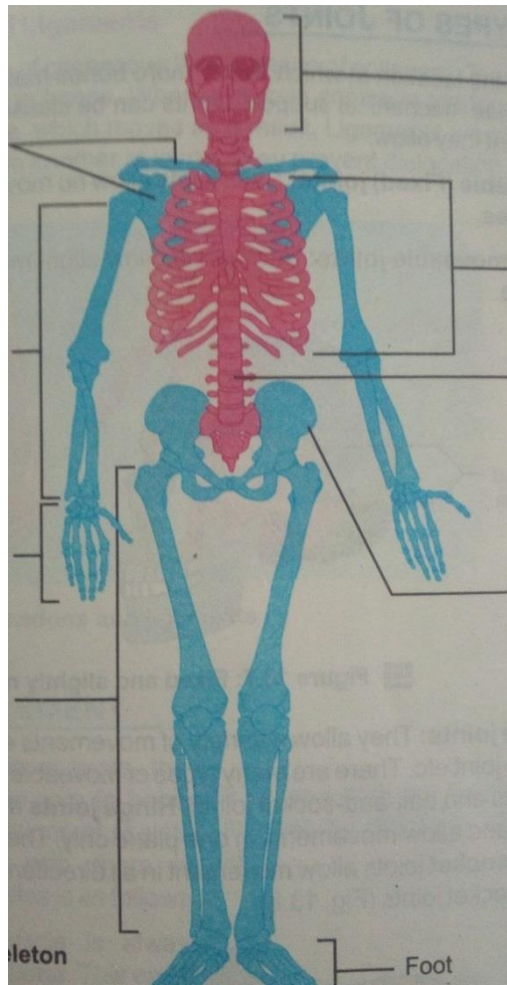
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lii) Describe human skeleton under the following headings:

- a) Appendicular skeleton
- 
- 
- 
- 
- b) Axial skeleton
- 
- 
- 
- 
- c) Label the component of human skeleton shown in figure below you have describe in (a) and (b).

# ST. MARY'S ACADEMY

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### BIOLOGY-X Work Sheet-5 (chapter # 12 page#62-65)

**Instructions:** Read the page #62-65 and then try to answer the following.

#### Multiple choice questions

- i) Toe joint is example of -----  
a) Hinge joint   b) ball and socket joint   c) immovable joint   d) all
- ii) Shoulder joint is example -----  
b) a) Hinge joint   b) ball and socket joint   c) immovable joint   d) all
- iii) The band of connective tissue attach muscle to bone is called -----  
a) Tendon   b) ligament   c) origin   d) insertion
- iv) The decrease in density of bones due to loss of calcium and phosphorus is called -----

# ST. MARY'S ACADEMY

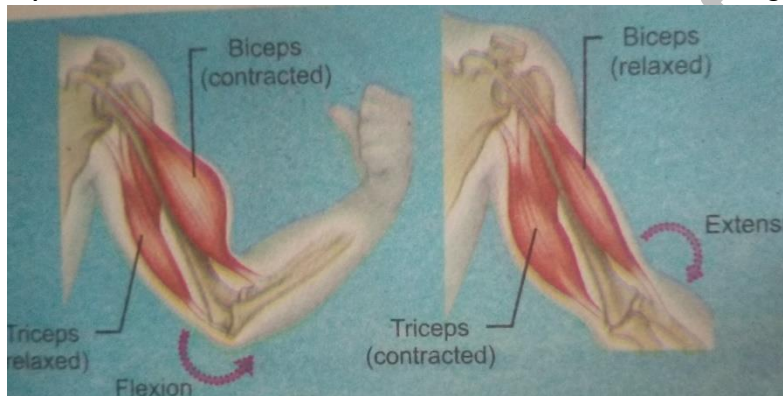
## CLASS 10

- v) a) Arthritis      b) osteoporosis      c) gout      d) rheumatoid  
Old age ,malnutrition and deficiency of estrogen contribute to-----  
a) Gout      b) rheumatoid arthritis      c) osteoporosis      d) all  
If a person take protein rich diet daily after some days he likely to have -----  
a) Osteoarthritis      b) rheumatoid      c) gout      d) a&b

Short answers:

- i) Differentiate : a) Osteoarthritis-----  
-----  
----- b)rheumatoid arthritis -----  
-----  
-----& Ligament -----  
----- Tendon-----  
-----

- ii) Explain the contraction and relaxation of skeletal muscle ,shown in figure below:



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