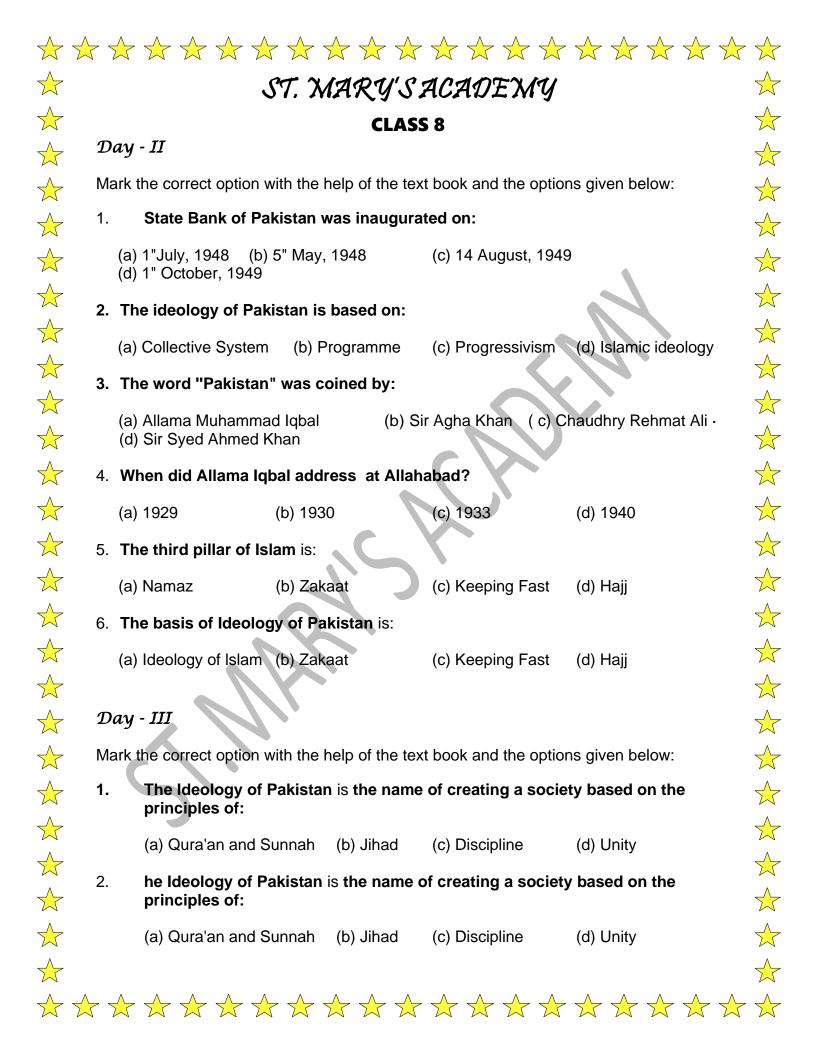
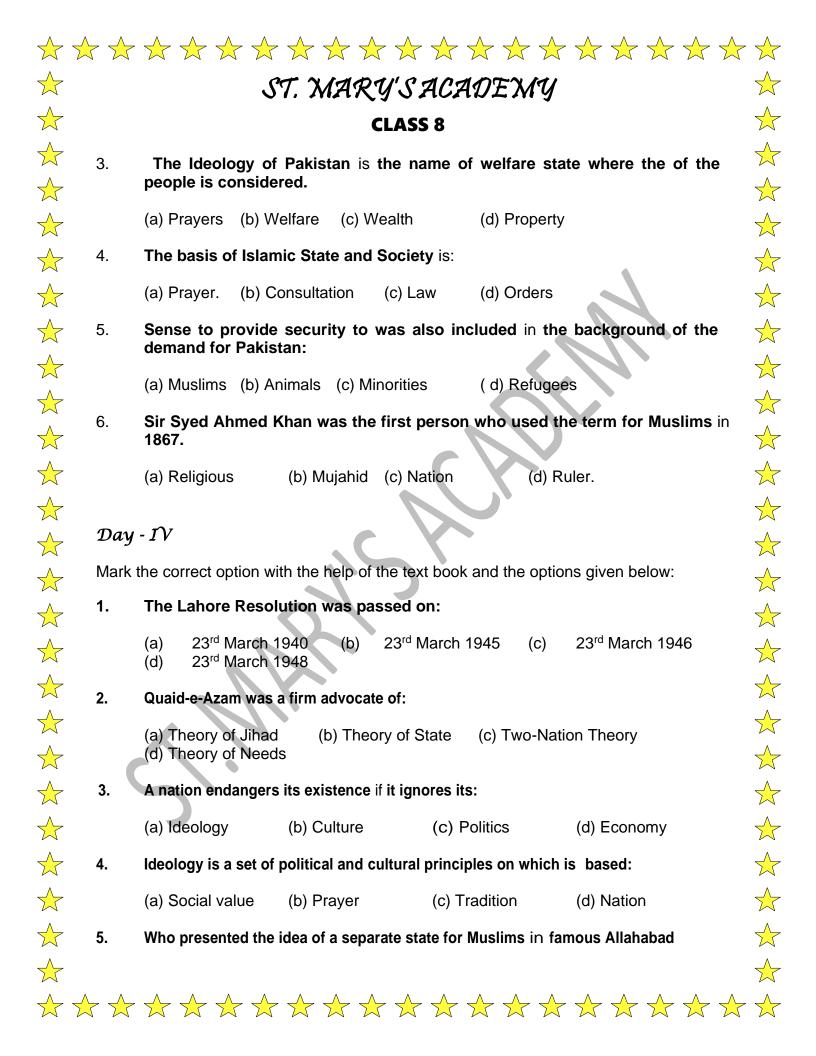


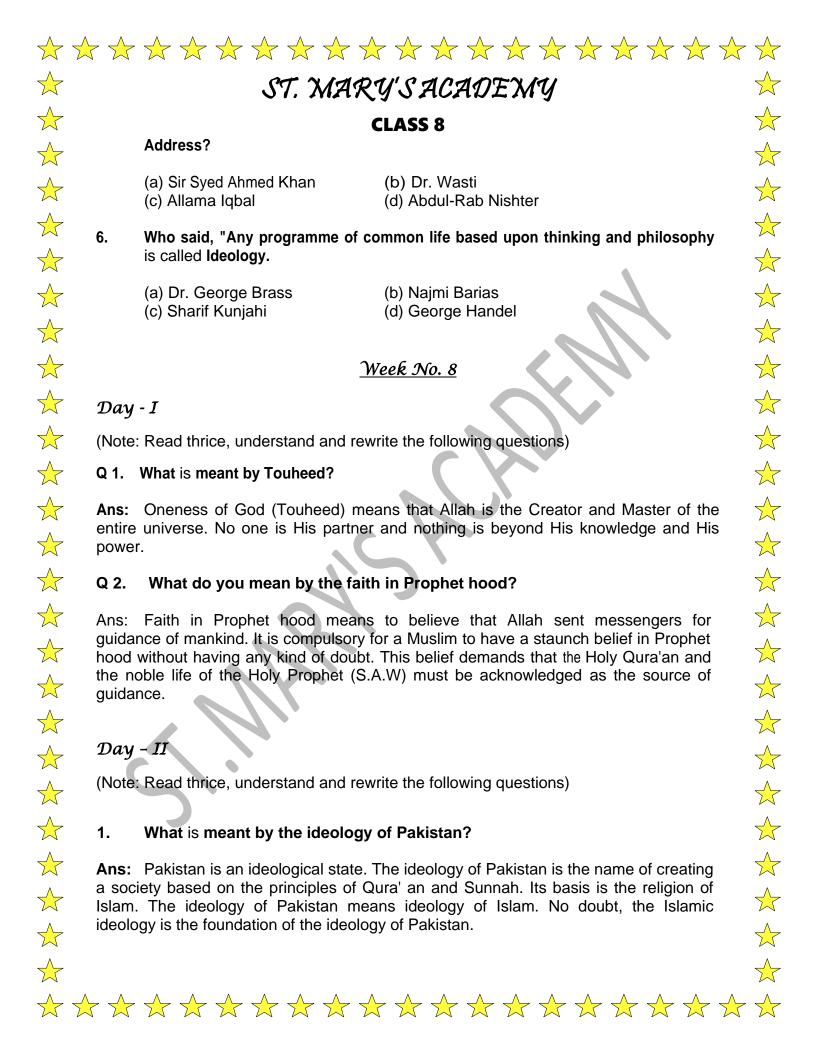
<b>1</b> C				C	LASS 8	0	. •		
Nan	ne:					Sec	tion:		
Subj	iect:	Pak.	Studies	<mark>Asses</mark>	sment N	<mark>√o.3</mark>	Tot	tal Marks:	15
Q. 1	Four	possib	le options are	given for	each statem	ent. Fill	in the	correct option	. (3)
	i.	Man	is the		of Almi	ghty Alla	ah.		
		a.	Angle			b.	Ashr	af-ul-Makhlool	k
		C.	Deputy			d.	Naib	IIII	
	ii.	Islan	n is a compe	te	of life.				
		a.	Way			b.	Code		
		C.	Style			d.	Proc	edure	
	iii.	Allar	ma Iqbal awa	kened the	Muslims th	nrough	his		_ <b>.</b>
		a.	Speeches				b.	Motivation	
		c.	Poetry	10			d.	Politics	
Q.2	Fill in	the bla	anks.						(3)
i.	А	llama	Iqbal address	sed at Alla	ahabad in _			•	
ii.	Т	he Brit	tish Rulers di	smissed a	all the Musli	ms fron	n		
iii.	Т	he righ	nt of one pers	son becan	ne the		_ of th	e other to fulf	ill.
			11,,						
Q. 3	Matc	h Colui	mn "A" with t	he Column	ı "B".				(3)
		C	olumn "A"		Column "	В"	C	Column "C"	
	Inau	guratio	on of State Ba	nk	1940				
	Laho	re Res	solution		1867				
	Urd	u Hindi	i Controversy		1948				

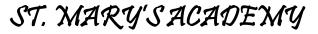
ST. MARY'S ACA	ADEMY
CLASS 8	
. 4 Write the short answers.	(6)
i. What is the saying of the Holy Prophet (PBUH) about	t brotherhood?
Ans:	
, w.o	
	•
<del></del>	
ii. Why the implementation of Islamic System is ne	ecessary in an Islamic society?
Ans:-	
iii. Why did the Muslims of the sub- continent got freed	lom?
ns:	

	ST. MARY'S	ACADEMY	
_	CLAS	_	
Name:		Section: _	
Subject: Pak.	Studies	<mark>Workshei</mark>	<mark>et No.4</mark>
	<u>Week I</u>	<u>No. 7</u>	
Day - I			
Mark the correct o	ption with the help of the te	xt book and the option	s given below:
. When did the	Hindi Urdu controversy st	tart?	
(a) 1861	(b) 1863	(c) 1865	(d) 1867
.The first pillar o	of Islam is:		
(a) Toheed and	d Prophethood (b) Namaz	(c) Keeping Fast	(d) Zakaat
s. When was the	war of independence fou	ght?	
(a) 1855	(b) 1857	(c) 1859	(d) 1861
I. Who has Sup	reme authority in Islam?		
(a) Allah Almig	hty (b) Parliament	(c) President-of the	state (d) People
5. Who gave the 1940)?	presidential address in th	e- Lahore Resolutior	n (23° March,
(a) Quaid-e-Az (d) Allama Muh	1 1	laque (c) Moulana	M. Ali Johar
5. Who gave the	idea of a separate state for	or the Muslims in 1	930?
(a) Sir Syed Al (d) Allama Mul	` '	ry Rehmat Ali (c) Sir	Agha Khan









#### CLASS 8

### Q2. While inaugurating the State Bank, what did Quaid-e-Azam say?

**Ans:** On 1<sup>st</sup> July, 1948, Quaid-e-Azam inaugurated the State Bank of Pakistan. On this occasion, he said: "The economic system of the West has created almost insoluble problems for the humanity. It has failed to do justice between man and man. We must present to the world an economic system based on true Islamic concept of equality of manhood and social justice."

Day - III

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

### Q1. What is the saying of the Holy Prophet (PBUH) about brotherhood?

**Ans:** About brotherhood, the Holy Prophet **(S.A.W)** said; "Each Muslim is a brother to every other Muslim. He should not commit breach of trust. He taught to refrain from maliciousness, malignance and enviousness."

### Q 2. What did Quaid-e-Azam say about nationalism?

Ans: About nationalism, Quaid-e-Azam said:

"Musalmans are a nation according to any definition of a nation, and they must have their homeland, their territory and their state."

Day - IV

 $\Rightarrow$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\Rightarrow$ 

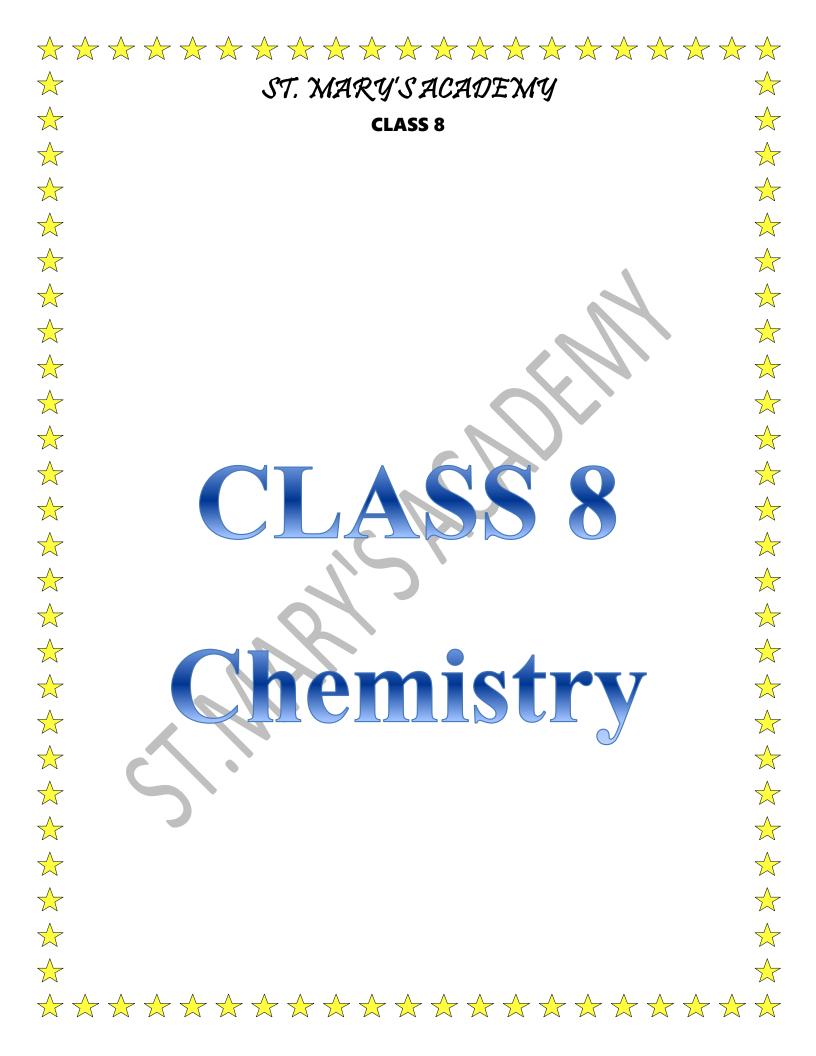
(Note: Read thrice, understand and rewrite the following questions)

# Q 1. What is meant by Two-Nation Theory in ~the historical perspective of the Sub-continent?

**Ans:** In the perspective of the Sub-continent, Two-Nation Theory means that two major nations, the Muslims and the Hindus, were settled there. The two nations were entirely different from each other in their religious ideas, the way of living and collective thinking. Their basic principles and the way of living are so different that despite living together for centuries, they could not intermingle with each other.

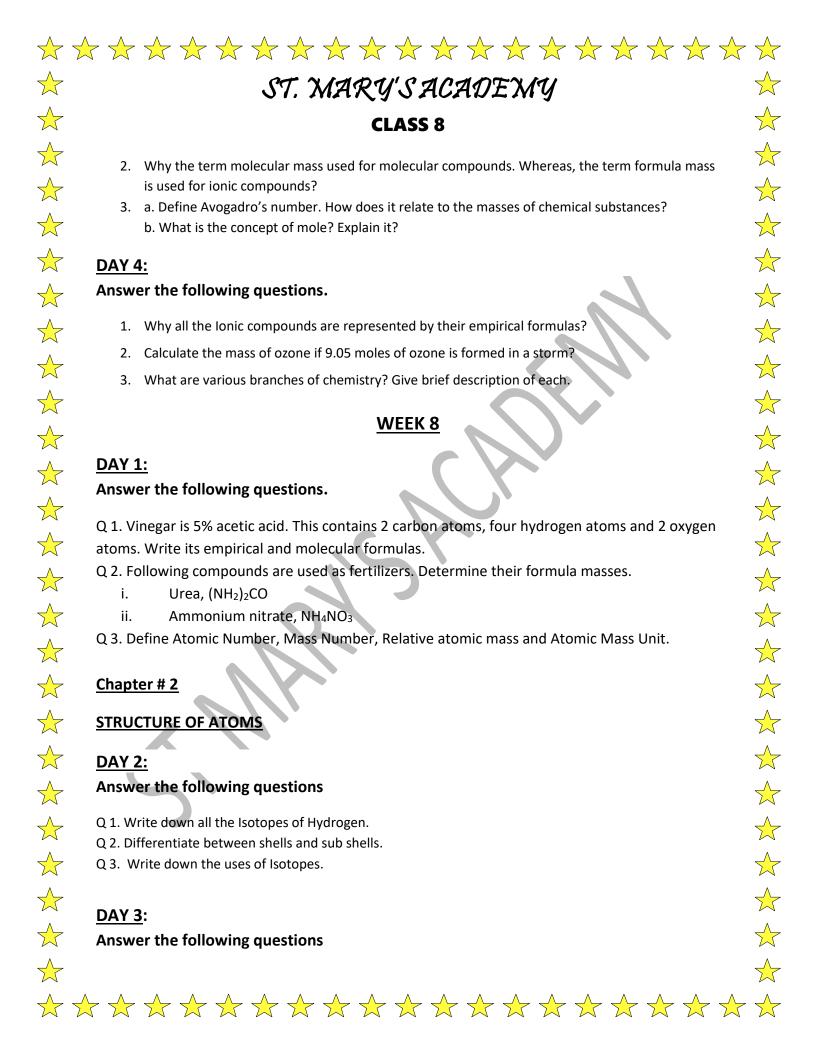
## Q 2. What did Quaid-e-Azam say about the security of minorities?

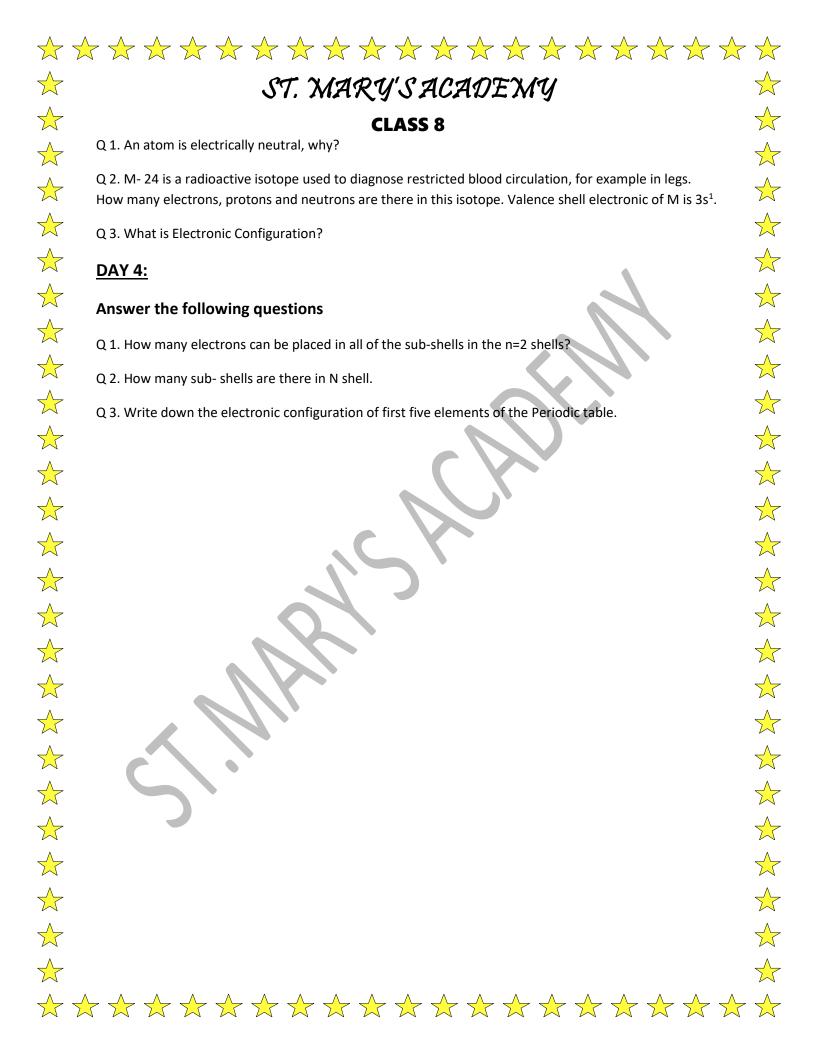
**Ans:** Sense to provide security to the minorities was also included in the background of the demand for Pakistan. Quaid-e-Azam (R.A) said very clearly that the right of the minorities will be fully protected in Pakistan. Islam does not allow that life, property, dignity and religious traditions of the minorities in Pakistan go unprotected.



	ST. MARY'S ACADEMY	7
	CLASS 8	
Name:_	Section	
Subject:	Chemistry Assessment No.3 To	otal Marks: 25
Q 1. Give	brief answer of the following Questions.	3x5= (15)
i.	At high temperature hydrogen sulphide (H <sub>2</sub> S) gas given of by air to sulphur dioxide (SO <sub>2</sub> ). Sulphur dioxide reacts wit How many molecules are there in 0.25 moles of SO <sub>2</sub> ?	
ii. 	Write down the conclusions of Rutherford from his exper	iment.
iii.	Draw Bohr's Model for the following atoms  a. Carbon Atomic no. 6, Mass no. 12  b. Flourine Atomic no. 9 Mass no. 19	
iv.	Define Atomic number and mass number? Give examples and molecular formula for Glucose.  a) C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> b) CH <sub>2</sub> O.	of each. Identify Empirica
V.	A molecule contains four phosphorus atoms and ten oxyg empirical formula for this compound. Also determine the	
	molecule.	illolai illass oi tilis
Q 2. Fill	in the blanks.	(5)
i. 	Isotope is used as a tracer in diagnosing thyr	oid problem.
ii. iii,	Rutherford used particles in his experiments.  The value of h (Plank's constant) is	
iv.	Magnesium ion has charge.	
V.	An impure substance that contains two or more pure substance individual chemical characteristics is called	ances that retain their
Q 3. Wr	ite down the postulates of Bohr's atomic theory.	(5)

$\Rightarrow \forall$	<b>&gt;</b>	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$	ST. MARY'S ACADEMY	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$	CLASS 8	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	Name: Section:	$\stackrel{\wedge}{\Longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	Subject: Chemistry Worksheet No: 4	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
$\bigwedge^{\sim}$	NOTE FOR THE STUDENTS:	$\bigwedge^{\sim}$
$\stackrel{\wedge}{\longrightarrow}$	Learn all the work given in the worksheet and practice daily.	$\Rightarrow$
$\Rightarrow$	<u>DAY 1</u> :	$\stackrel{\wedge}{\Longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	Answer the following questions.	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	Q 1. Explain Why an Oxide has -2 charge and Mg <sup>+2</sup> has +2 charge.	$\stackrel{\wedge}{\longrightarrow}$
$\bigwedge$	Q 2. Pottasium Chlorate ( $KClO_3$ ) is used commonly for the laboratory preparation of oxygen gas. Calculate its formula mass.	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\Longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$
<b>☆</b>	Q 3. Differentiate between Compound and Mixture?	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	<u>DAY 2</u> :	$\rightarrow$
$\Rightarrow$	Answer the following questions.	$\Rightarrow$
$\Rightarrow$	Q 1. Identify ions, molecular ions and free radicals from the following species.	$\Rightarrow$
$\Rightarrow$	CN-, .CN, He+2, N-3,	
$\Rightarrow$	Q 2. A spoon of table salt, NaCl contains 12.5 grams of this salt. Calculate the number of moles it contains.	$\stackrel{\wedge}{\Longrightarrow}$
$\Rightarrow$	Q 3. Define ion, molecular ion, formula unit, free radical, atomic number, mass number, atomic	$\Rightarrow$
$\Rightarrow$	mass unit with suitable examples.	$\Rightarrow$
$\Rightarrow$	<u>DAY 3</u> :	$\Rightarrow$
$\Rightarrow$	Answer the following questions.	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	1. Calculate the number of moles of each substance in samples with the following masses:	$\Rightarrow$
$\Rightarrow$	a. 250 mg of Carbon b. 1.5 Kg of MgO	$\Rightarrow$
$\Rightarrow$		$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow \forall$	<b>&gt;</b>	$\Rightarrow$







	<i>ST.</i>	MARY'S ACAD!	EMY
		CLASS 8	
Nan	ne:		ection:
Sub	ject: Computer	Assessment No: 3	Total Marks: 25
-	: Encircle the correct of		(5)
I.	Which one is the output	device?	
	A) Scanner	B) Microphone	
	C) Printer	D) Barcode reade	er
II.	Device used to input sou	und in to the computer.	
	A) Keyboard	B) Mouse	
	C) Scanner	D) Microphone	
III.	Optical storage device u	sed to store data.	
	A) Compact Disk	B) Hard Disk	
	C) Memory Card	D) USB Flash Mer	mory
IV.	A person who is	responsible for the c	design, implementation an
	maintenance of a dat	abase in an organization.	
	A) Network Administrato	or B) Database Adm	inistrator
	C) Software Engineer	D) Hardware Engineer	
٧.	A person who is	s responsible for inst	allation, configuration an
		puter networks in organiza	
	A) Network Administrato		inistrator
	C) Software Engineer	D) Hardware Engineer	
			(0.4.40)
		of the following questions	. (3x4=12)
	Define Computer Hard	aware.	
	What is Scanner? What is Microprocesso	nr?	
	What are registers?	л :	
ᅻ.	what are registers:		
Q#3	: What are storage dev	/ices?	(8)
,		-	(-)

	CLASS 8
Name:	Section:
Subject: Computer	Worksheet No: 4
<u>W</u>	Veek 7 & 8
Q#1: What are output devices?	
Q#2: What is Monitor?	
042 What's District Open the total	
Q#3: What is Printer? Describe its ty <u>Printer</u>	ypes.

	CLASS 8
Impact printer	
Non-Impact printer	
I: What is Plotter?	
<u>etter</u>	
. What is Overland	
5: What is Speaker? eaker	

	ST. MARY'S ACADEMY
	CLASS 8
Q#6: What is Computer MEMORY	r Memory? Describe its types.
ROM (Read Only Me	emory)
	<b>&gt;</b>
RAM (Random Access	Memory)

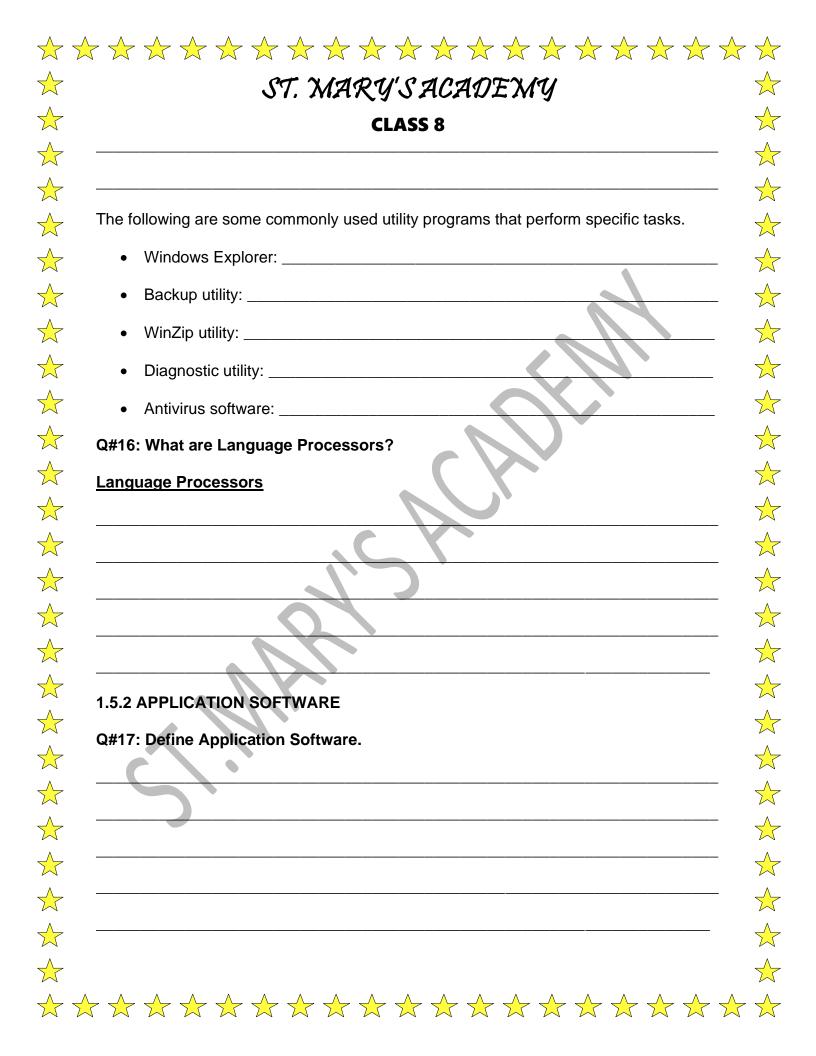
37. M	IARY'S ACADEMY
	CLASS 8
Q#7: What is Cache Memory?	
z#1. What is Cache Memory?	
LA A DODTE EVENNEION EL C	TE AND EVEANCION CARRE
I.3.2 PORTS, EXPANSION SLC	DIS AND EXPANSION CARDS
Q#8: What are ports? PORTS	
<u></u>	

01. 2	MARY'S ACADEMY
	CLASS 8
On Motherboard ports	
Q#9: What are Expansion Slo EXPANSION SLOTS AND EXI	
1.4 BASIC OPERATIONS OF	
with the basic ope	

	CLASS 8
Input Operation	
❖ Processing Operation	
<ul><li>Storage Operation</li></ul>	
<ul> <li>Output Operation</li> </ul>	

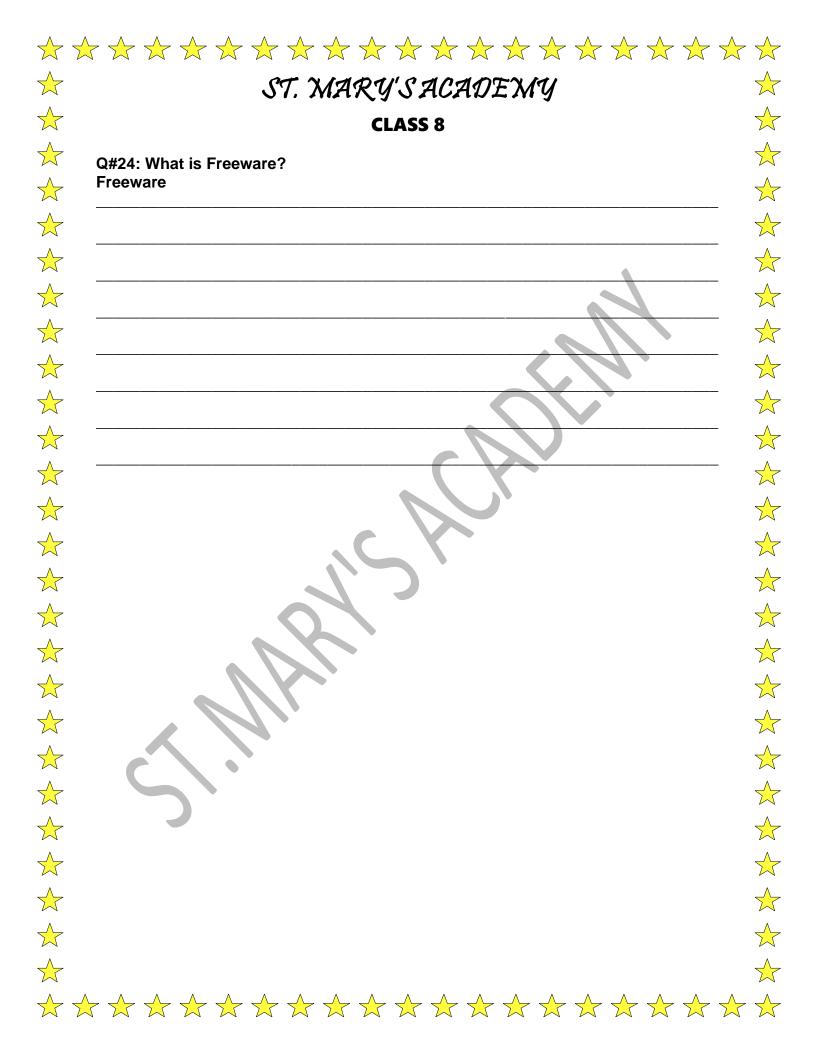
	ST. MARY'S AC	CADEMY	
CLASS 8			
1.5 COMPUTER SOF	TWADE		
Q#11: Define compu	iter software.		
1.5.1 SYSTEM SOFT Q#12: Define systen			
	116		
	-0/-3		
The types of system	software.		

	ST. MARY'S ACADEMY
\#4	CLASS 8
	3: What is operating system?
<u>Эре</u>	erating System
The	following tasks are performed by the operating system.
Q#1	4: What are Device Drivers?
Dev	rice Drivers
	UE MIL et en l'ACTE De man C
	5: What are Utility Programs?
<u>Utili</u>	ity Programs



	ST. MARY'S ACADEMY CLASS 8	
Q#18: What is Pro	eductivity Software?	
Productivity Software		
Q#19: What is Bus	siness Software?	
Business Software		
Duomoco Contwart		
Q#20: What is Ent	tertainment Software?	
Entertainment Sof	ftware	
<u> </u>		
Q#21: What is Edu	ucation Software?	

ST. MARY'S ACADEMY		
CLASS 8		
Education Software		
1.5.3 OPEN SOURCE SOFTWA	ARE, SHAREWARE AND FREEWARE	
Q#22: What is Open Source So	oftware?	
Open Source Software		
Q#23: What is Shareware?		
Shareware		
Silalewale		

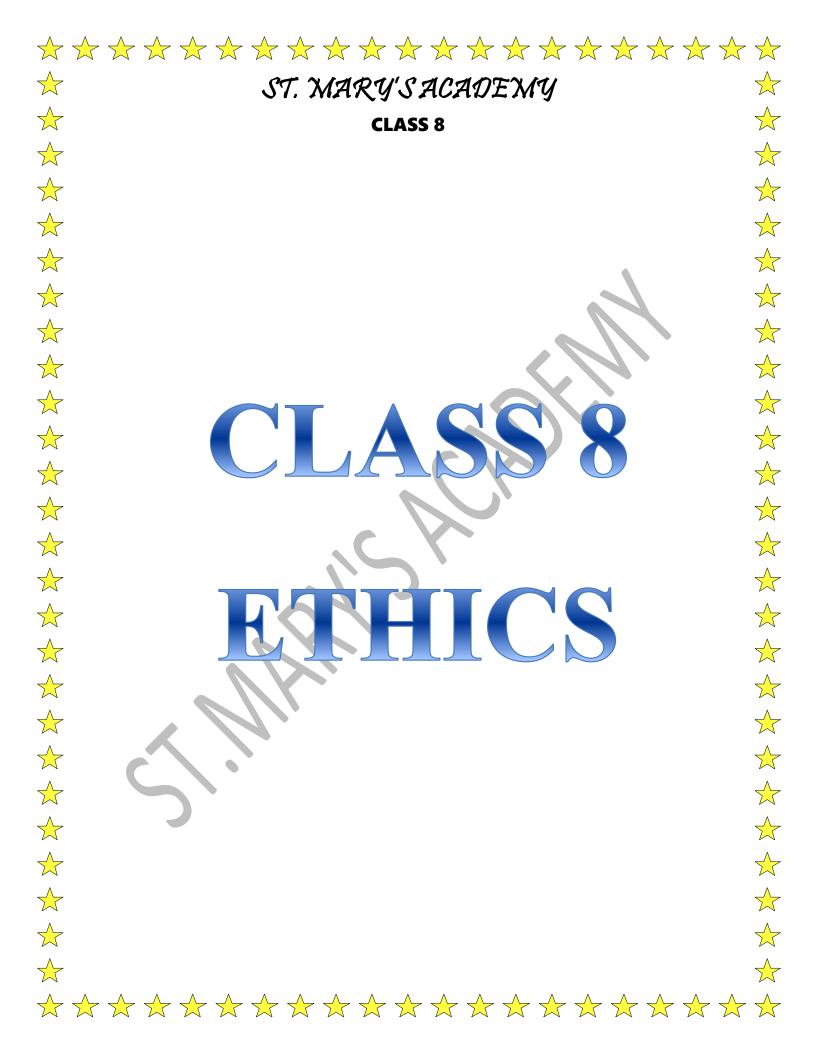




	CT VIMOTIC MOMOTY MI	
	ST. MARY'S ACADEMY CLASS 8	
	CLASS 6	
Name:	Section:	
Subject: Urdu	Assessment No.3 Total Marks: 2.	5
(10)	ورجة إسوالول عظرها إعديد	سوال نبرا:
	حرجة كان ك يم كار كالي الماكي الماكي الماكية	-1
	معدى كالمع عدد وركى باعدى فقى ب	-2
	" القرنفت" سيكا الموكون إلى؟	-3
	كان سے كل كے وور والى وائم كرتے ہيں؟	_4
	المين ايد دومر عسى مدكول كرفي واليها	-5
(5)	وي كاينك و كاري اور ما تعين الم اور شام كان م كليس.	سوال فبر2
	فوٹ کا سان سے ارسے	
	شباؤكة بي ها 10	
	ويم كرح إلى الوك بياب	
	عن شقراون فوف كمارك	
	كوتك يمواضا بمجر عماهم	
	دودوستوں کےدرمیان موالیل فون کا اجیت یا سکالم قریر ہیں۔	سوا <b>ل ن</b> بر1:3-
	على: ما الروسطوال في كالريكا والعين على الم	-2

#### $\Rightarrow$ $\stackrel{\wedge}{\nearrow}$ ST. MARY'S ACADEMY $\Rightarrow$ $\bigwedge$ **CLASS 8** $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ $\stackrel{\wedge}{\longrightarrow}$ Name: Section: $\stackrel{\wedge}{\longrightarrow}$ $\checkmark$ Worksheet No: 4 Subject: Urdu $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ $\stackrel{\wedge}{\longrightarrow}$ $\stackrel{\wedge}{\longrightarrow}$ ساتوال مفته: (سبق : جرت بوي) كتاب برائحم $\checkmark$ يبلادن مخضرجواب دي $\checkmark$ الف: جرت نبوي على امرادع؟ $\stackrel{\wedge}{\longrightarrow}$ $\checkmark$ ب: رسول باك في نوت كون عدال جرت فرمائ؟ $\checkmark$ $\checkmark$ ت: حضرت امير سيكون ك شخصيت مرادب؟ $\checkmark$ $\bigwedge$ و: رسول ياك في حضرت على على ارشاوفرمايا؟ $\Rightarrow$ $\Rightarrow$ ه: حضرت الماكون تعين؟ و: قریش نے رسول پاک اور حضرت ابو بکر اگر فقار کرنے کا کیا انعام مقرر کیا؟ $\Rightarrow$ $\Rightarrow$ ز: سراقه بن بحثم كيسة ائب بوا؟ $\checkmark$ $\checkmark$ دوسرادن: متن كومد نظر ركمة موئ موزول الفاظ كي مدد عالى جله يُركري- $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ الف: حافظ عالم نے مسلمانوں کو دارالامان \_\_\_\_\_ کی طرف رُخ کرنے کا حکم ویا\_( مکد، مدید بند، طائف، یمن ) $\checkmark$ $\bigwedge$ ب: نبوت کا \_\_\_\_\_ سال شروع ہوااورا کشر صحابیّہ ہے بہتو چی انووی الهی کے مطابق: آنحضرت نے بھی مدیخ کاعزم فرمایا $\Rightarrow$ $\Rightarrow$ \_(بارهوال، دسوال، تیرهوال، بندرهوال) ج:اس وقت بھی آپ کے پاس بہت ی \_\_\_\_\_موجودتھیں \_(تلواری،امانتیں، مجوری نعتیں) $\checkmark$ $\checkmark$ و: \_\_\_\_\_\_ كومعلوم مو يُكافها كر قريش آب حقل كااراده كريك مين وجناب ابوكر ، جناب عمر ، جناب عثان ) $\Rightarrow$ $\Rightarrow$ ه: \_\_\_\_\_\_ يبلغ رارداد بو عكى تقى \_ (حضرت عمر ، حضرت زير ،حضرت على ،حضرت الوبكر ) $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ و: الى طرح \_\_\_\_\_راتين غاري لزاري \_ (تين ، حار ، يانچ ، سات) $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ تیسرادن: درج ذیل بیانات میں سے درست کی نشاند ہی ( )اور غلط کی نشاند ہی ( × ) سے کریں۔ $\stackrel{\wedge}{\longrightarrow}$ $\Rightarrow$ الف: وعوت حق کے جواب میں ہرطرف ہے توار کی جھنکاریں سنائی وے رہی تھیں۔ ب: حافظ عالم في مسلمانون كودارالامان حبشه كي طرف رُحْ كرف كاحكم ويا\_ $\stackrel{\wedge}{\longrightarrow}$ ج: نبوت كے تيرهوي سال اكثر صحابةً دين اللَّه على تھے۔ $\bigwedge$ د: ساوگوں نے ایک بی رائے پیش کی۔ $\Rightarrow$ $\Rightarrow$ $\bigwedge$ $\checkmark$





Name:		Section:
Subject: Ethics	Assessment No.3	Total Marks: 25
Q.1) What is the relationshi	ip between religion and psycho	ology? Give two examples. (6)

•	ST. MARY'S ACA	UENIY
0. 2) Give short ensurers	CLASS 8	2 v 2 – (0)
Q. 2) Give short answers	of the following questions.	3 x 3 = (9)
) What effects the Huma	n conscience the most?	
ii) Write two important as	spects of morality?	
	C	
\$		
<i>C</i> /,		
iii) What are the common	beliefs of Jainism and Hinduism	1?

ST. MARY'S ACADEMY		
CLASS 8		
Q. 3) Write True or False against the given statements.	(5)	
<ul> <li>i) The personality of an individual is based upon religion and psychology</li> <li>ii) The system of morality of a nation comprises of its traditions, habits</li> </ul>		
iii) Religion and wisdom are interconnected.		
iv) Jainism gives importance to five non spirits.		
v) In the 1980's the Jain community divided into two major sects.		
Q. 4: Fill in the blanks with the given words appropriately.  (conscience, nature, last, human character, beliefs)	(5)	
1) Religion is included in man's		
2) decides between right and wrong.		
3) Economic development is based on		
4) Common plaments in Jainism and Hinduism are		
4) Common elements in Jainism and Hinduism are	_•	
5) In Jainism the most important Trithankara is		
WITH BEST WISHES!!		

	CLASS 8
Name:	Section:
Subject: Ethics	Worksheet No: 4
Q. 1Give detailed answers of the	e following questions:-
Q (i) Discuss the moral values of	f religion. (Chapter No. 2)

Vrite a note on Jainism./What do you know about Jainism? er3)		SACADEMY .ss 8
-		
er3)	II) Write a note on Jainism./What d	o you know about Jainism?
	apter3)	
		<u></u>
	61,	

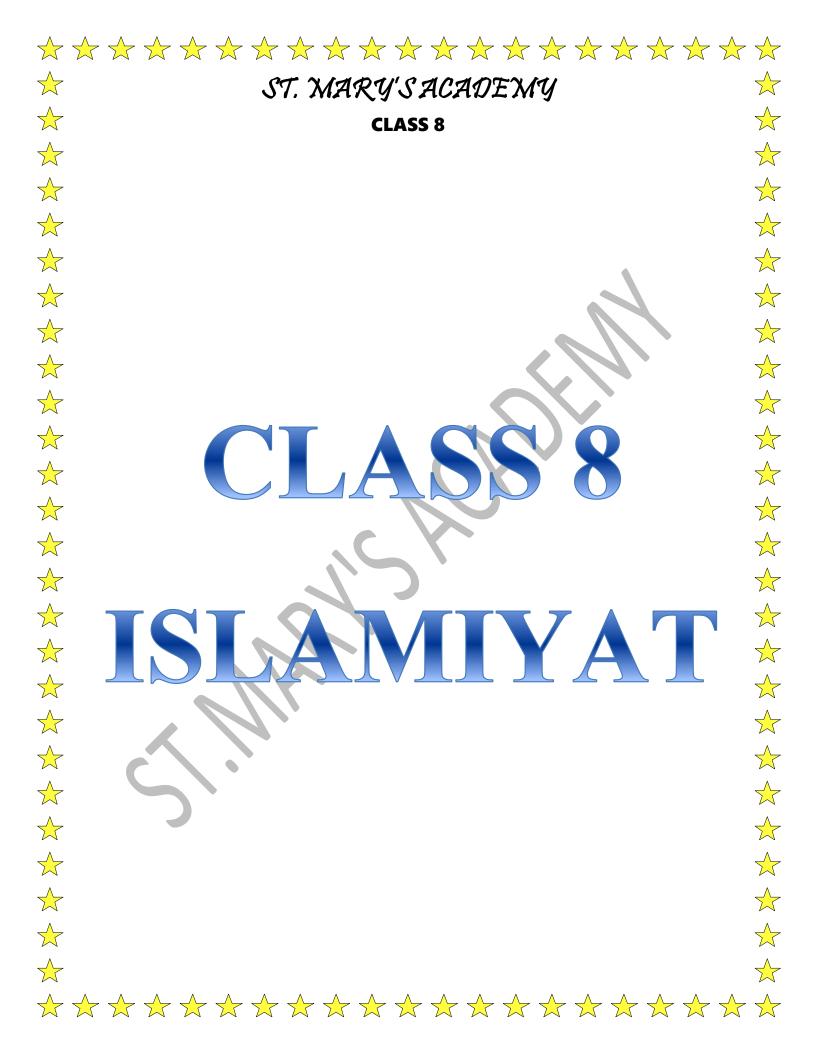
	ST. MARY'S ACADEMY
	CLASS 8
(NOTE) Read (	Chapter No. 3 and answer the following question.
Q.III) What ar	re the beliefs of Jainism about soul and matter?
NOTE: Give s	short answers after going through Chapter No. 2 and 3
	at aspects are included in the betterment of a society?

	ST. MARY'S ACADEMY
	CLASS 8
	t answers of the following questions.  who is given more importance the individual or the society?
	are the important sources of morality?
ر. (۱۱۱) VVIIat (	are the important sources of morality:
Q(IV) Write t	he names of four virtues (good works) and four vices (bad
	ioned in the perspective of morality.

	CLASS 8
Q. (V) What are the commo	on values of various religion? (Page No. 8)
Q.(VI) What is the basic righ	ht of every human being? (Page 8, Last para)
	·
Q. (VII) What is disliked by	every society? (see page 8, 2 <sup>nd</sup> last para)

	ST. MARY'S ACADEMY
	CLASS 8
	What provents human beings from committing crimes?
ر. (۱۱۱۱) 	What prevents human beings from committing crimes?
Q3 ) Wr	rite in short how can you be good to your neighbours? (5 to 7 line
` ,	
Q. 4) Wr	rite True or False against the given statements.

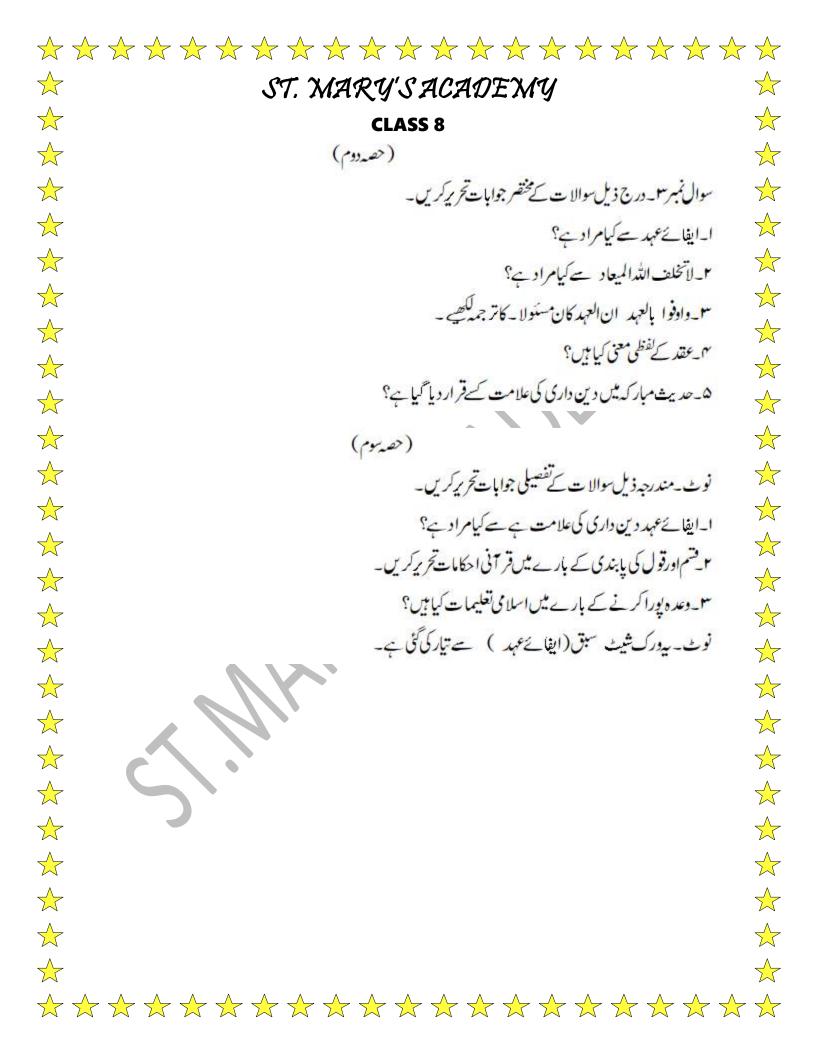
$\stackrel{\wedge}{\longrightarrow}$		$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	ST. MARY'S ACADEMY	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	CLASS 8	$\Rightarrow$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	Jain believers believe that their religion is imperishable. (everlasting)  ——————	★
★ .	2) The Digimbars influence helped Jainism to flourish in Karnatak	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
★	(in fact Mahavira is the 24 <sup>th</sup> Trithinkara)	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\wedge}{\longrightarrow}$	4) In the 1980's the Jain Community divided into two major sects:	$\bigwedge_{\Lambda}$
${\diamondsuit}$	5) Jainism gives importance to five non Spirits	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\wedge}{\longrightarrow}$	6) The three major religions are Christianity, Judaism and	$\bigwedge$
$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array}$		$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\sim}{\Rightarrow}$		$\stackrel{\textstyle \sim}{\updownarrow}$
$\stackrel{\wedge}{\longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$		$\bigwedge_{\Lambda}$
$\stackrel{\wedge}{\longrightarrow}$		$\bigwedge_{\Lambda}$
${\diamondsuit}$		$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$		$\bigvee$
$\stackrel{\wedge}{\longrightarrow}$		$\bigwedge$
$\Rightarrow$		$\stackrel{\wedge}{\longrightarrow}$

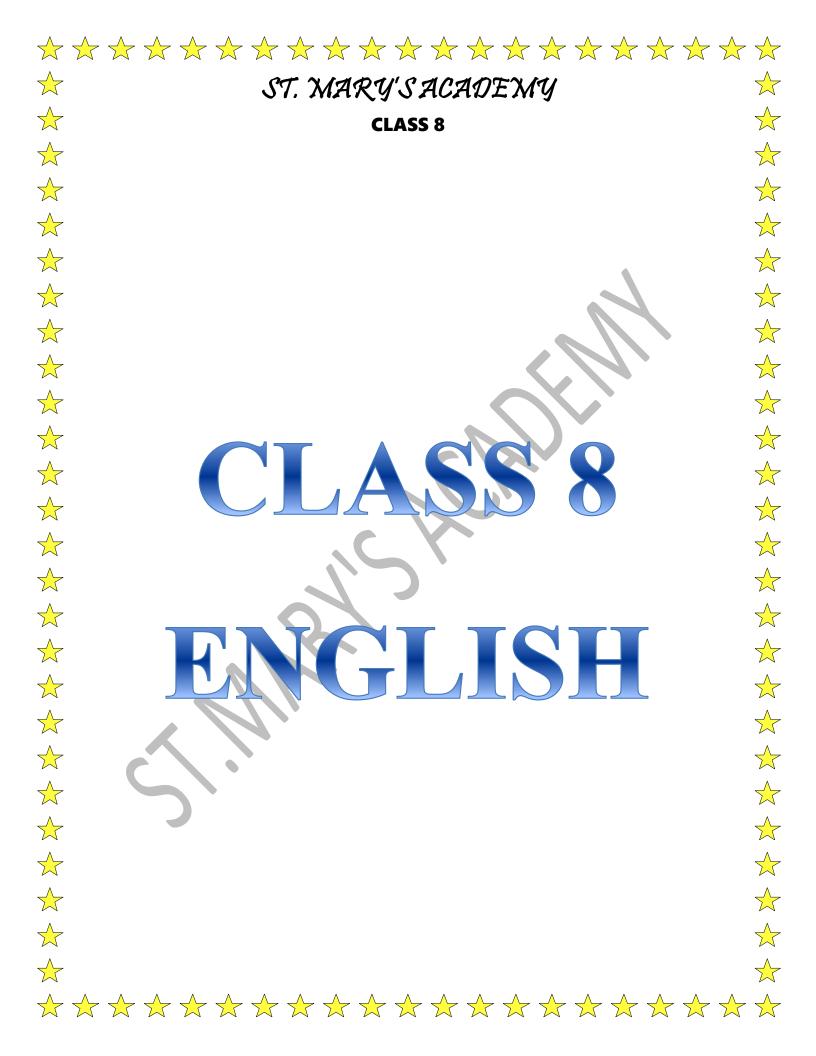


Name:	<b>CLASS 8</b> Sec	Section:	
Subject: Islamiyat	Assessment No: 3	Total Marks: 15	
	(حصداول)		
	- ,		
	(	سوال نمبرا۔خالی جگه پُر کریں۔(۵	
	رکن ہے۔	ا۔روز ہ ار کان اسلام میں ہے	
	كاۋرىيەپ-	ب۔روزہ گنا ہول ہے	
	میں فرض کیے گئیے	ج_روز ہے مسلما نوں پر	
_ کا جذبه پیدا ہوتا ہے۔	کے لیے ہمدر دی اور	د ـ رمضانالىبارك مىں دوسروں ـ	
,		ہ۔روزہ دارکے کیے	
	-0:0:2		
	(حصہ دوم)		
	ت تجرير کريں۔(۱۰)	سوال نمبر۳- درج ذیل سوالات کے مخضر جوا،	
		ا۔روزے کے اصطلاحی معنی کیا ہیں؟	
	?	۲۔روزہ اور دوسری عبادات میں کیا فرق ہے	
	0		

CLA	ASS 8
	_روزه دار کے لیے کتنی خوشیاں ہیں؟
	۔رمضان میں دوسر بے لوگوں کے لیے کیاجذ بہ پیدا ہوتا ہے؟
	یشهرالمواساة کےکہاجا تاہے؟
51.	

	ST. 2	MARY'S AC	ADEMU	
	• • • •	CLASS 8	• • • • • • • • • • • • • • • • • • • •	
Name:			Section:	
Subject: I	Islamiyat		Worksh	i <mark>eet No: 4</mark>
		(حصه اول)		
			- <i>U</i>	سوال نمبرا۔خالی جگہ پُرکر
			۔۔ یاقول وقرار کیا جائے۔	
		_ کرتے ہیں۔	، ہیں قواسے	ب۔اور جبوعدہ کرتے
		_ کرتے ہیں۔	پے عہدو بیان کی	ج_جوا پنی امانتوں اورا۔
			کوپورا کرو_	د۔اےمومنوںاپنے _
			كانے كي اِن	ه ِعقد کے لفظی معنی _
			كانتنا كري	سوال۲ ـ درست جواب
		6.	اہ کاب ریں۔ نیال نہیں رکھتے اس میں نہیں۔	Action Charles
				•
	د_ <i>ټدر</i> وي	ج_رواداری م	ب۔ دین زی کرنا دین کی کمزوری کی ہے:	ا حيا بو کنده
	÷	' ج_گواہی	ری تربادین کی مروری کا ہے۔ ب۔علامت	
	د_مرضی	ن- وائي	C1-22 C2 - 5-8-1	
	V. #	l wa		۳_حقوق کیاس ادائیگر
	د_قربانی	ج_اصول	ب۔ندہب	اردین ارداد با
C			ں سے میساں سلوک کرناایمان م	
	و-تهذیب	<b>5-رسم</b>	بدنشاني	
		4	7.00	۵_وعدے کی پابند <i>ی کھ</i>
	و_ايفائے عہد	ج-نیکی	ب_صبروقخل	ا_فکرمندی
^_		^^ _	·	^^





	ST. MARY'S ACADEMY CLASS 8
Nan	
Subj	iect: English Assessment No.3 Total Marks: 25
Q.1) C	Complete the given below sentences with the conjunctions, 'since' or 'for' (5)
1)	My mother has been sewing a shirt2 o' clock.
2)	I have been waiting for my friendone hour.
3)	We have been studying in Saint Mary's Academyeight years.
4)	He has been living in Pakistan birth.
5)	The soldiers have been doing their dutyearly morning.
	Make sentences with the given homophones (same sound and different meaning words).  (6)
V	
V	words).
1)	Affect:(Verb)
1)	Affect:(Verb)  Effect (Noun)
2)	Affect:(Verb)  Effect (Noun)  Alter

$\stackrel{\wedge}{\longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	ST. MARY'S ACADEMY	$\Rightarrow$
$\stackrel{\textstyle \wedge}{\longrightarrow}$	CLASS 8	
$\Rightarrow$	Q. 3) Fill in the blanks with suitable words. (5)	$\stackrel{\wedge}{\Longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	1 means to bear pain or hardships with patience.  (tolerate/tolerance)	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\wedge}{\longrightarrow}$	2. The Rasool (S.A.W) is a of tolerance. (model/great)	$\stackrel{\cdot}{\nearrow}$
	3. We an exciting football match today. (watch/ watched)	<ul><li>☆</li><li>☆</li><li>☆</li></ul>
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	4. He two books this year. (ride) a bike when he (meet) an accident. (reads / read)	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\wedge}{\longrightarrow}$	5. Have you ever in the river? (swim, swum)	$\stackrel{\wedge}{\longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	Q. 4) Give short answers of the following questions. (9)	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
<ul><li>★</li><li>★</li></ul>	Q- i) Who is a magician?	<ul><li>☆</li><li>☆</li></ul>
<ul><li>☆</li><li>☆</li><li>☆</li></ul>		$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array}$
<ul><li></li></ul>		$\begin{array}{c} \times \\ \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\wedge}{\longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	Q. ii) What is an exhibition? (3)	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	<u> </u>	$\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array}$
		, ,

ST. MARY'S AC	
CLASS 8	
Q (iii) What did Mr. Qazi ask Akbar?	(3)

$\stackrel{\wedge}{\longrightarrow}$		$\Rightarrow$
$\Rightarrow$	ST. MARY'S ACADEMY	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$	CLASS 8	$\stackrel{\wedge}{\Longrightarrow}$
$\Rightarrow$	Name: Section:	$\Rightarrow$
$\bigwedge_{\Lambda}$	Subject: English Worksheet No: 4	$\bigwedge_{\wedge}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	Week 7	$\frac{1}{2}$
$\stackrel{\wedge}{\longrightarrow}$	Q.1) Put the suitable Conjunction in the given sentences (Remember the Rule for making Present Prefect Continuous tense. Page No. 22 from PTB - 8 Book)	
$\stackrel{\wedge}{\longrightarrow}$	Example: The (work) since morning.	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	correct. The has been working since morning.	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	1) My mother has been sewing clothes 8 o' clock.	$\stackrel{\wedge}{\longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$	2) Nosheen has been going to schoolfour years.	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\begin{array}{c} \times \\ \\ \\ \end{array}$	3) My friend has been readingthree hours.	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\stackrel{\sim}{\Rightarrow}$	4) I have been sitting at this tableearly morning.	$\stackrel{\textstyle \sim}{\Rightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	5) My father has been telling storiestwo hours.	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	6) She has been doing her homework 4 o' clock in the afternoon.	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	Q. 2) Put the APPROPRIATE ARTICLE, 'A', 'An', 'The' etc.(PTB-8 Page No. 23)	$\stackrel{\wedge}{\Longrightarrow}$
$\Rightarrow$	Examples: <u>The</u> English book is very interesting.	$\Rightarrow$
$\Rightarrow$	The wrist watch I got on my birthday is very special.	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	<u>A</u> boy should be brave.	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	1) My grandmother likesflowers very much.	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	2) Their car does 150 miles  hour.	$\stackrel{\wedge}{\Longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	3) I always listen to radio in the morning.	$\bigwedge$
$\bigwedge$	4) Is your mother working inold office building?	$\stackrel{\wedge}{\longrightarrow}$
$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$		$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$

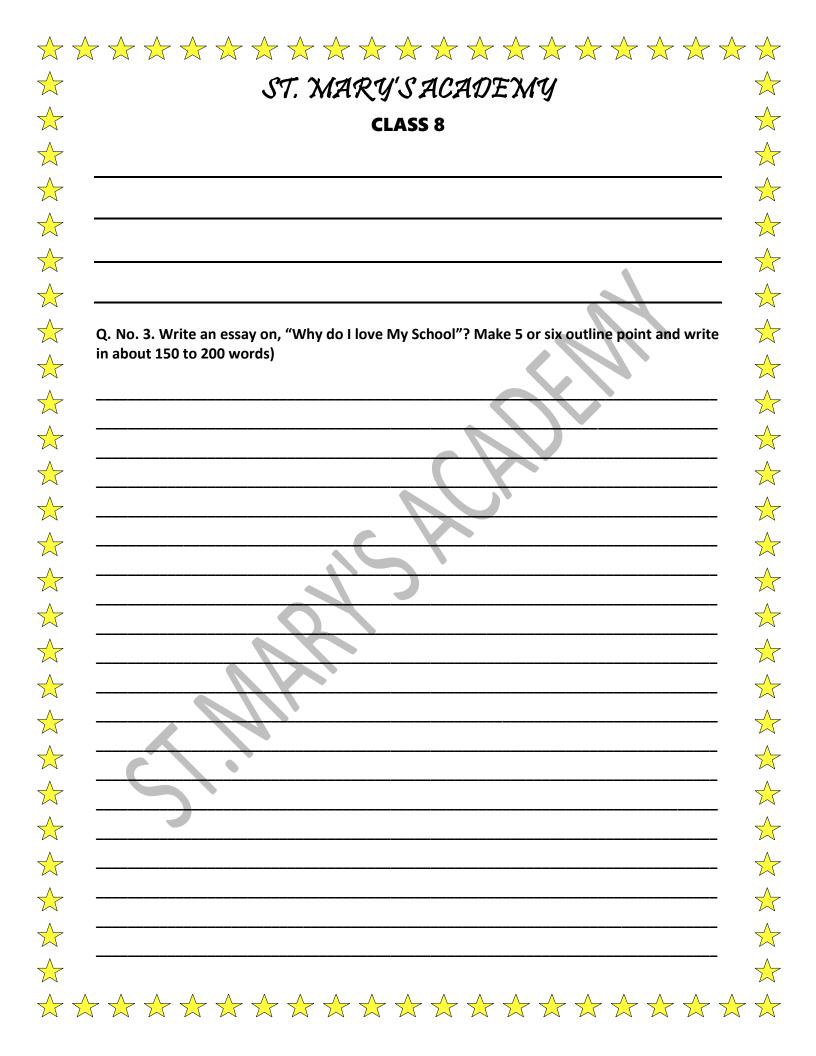
### ST. MARY'S ACADEMY **CLASS 8** 5) Where is USB drive I lent you last week? Q. 3) HOPE YOU HAVE LEARNT THE GIVEN FIVE RULES FOR MAKING PASSIVE VOICE. Now please read the examples from Page No. 167 or 168, and make Passive Voice: - (CONTUATION OF THE VOICE) Rule No. 1: Identify and circle the 'Subject' and 'Object' in the Active Voice Sentences. Rule 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. $\stackrel{\wedge}{\nearrow}$ The Preposition 'by' is placed before the Object. Rule No. 4: $\stackrel{\wedge}{\longrightarrow}$ 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. In Present Perfect Tense change has/have into has been with the third form of the verb. Example: Active Voice: I have completed my English work. Passive Voice: My English work has been completed by me. Make the Passive Voice of the following Active Voice sentences:-Active Voice No. 1: My brother reads a poem. Passive Voice: $\stackrel{\wedge}{\longrightarrow}$ Active Voice No. 2: My sister loves dolls. Passive Voice: $\Rightarrow$ Active Voice No. 3: Junaid helps Ajmal. Passive Voice: Active Voice No. 4: The drier opens the door of the car. Active Voice No. 5: My uncle paints a picture.

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

	ST. MARY'S ACADEMY
	CLASS 8
	tive Voice No. 6: A rich man helps the poor boys.
	tive Voice No. 7: Our parents love us.
	4) Please recall the page No. 170 and 171 from ENGLISH Grammar Book and change the rration: -
1)	She said, "I am doing my home task now".
2)	She said, "I am not a florist".
3)	Uncle said, "I am working hard in Dubai now?"
4)	My friend said, "I have returned the book now".
5	David said, "I will go to New York".
	5) Use the given homophones ( similar sound words with different meanings) in your own ntences. (Grammar Book Page No. 175 or 176)
1)	Alter: (to change)
	Altar:(a place to sacrifice animals)
	manifu prace to sacrifice annifully
2)	Angel:(heavenly beings worshiping God Almighty day and night)
_	Angle: (a figure formed my two lines)

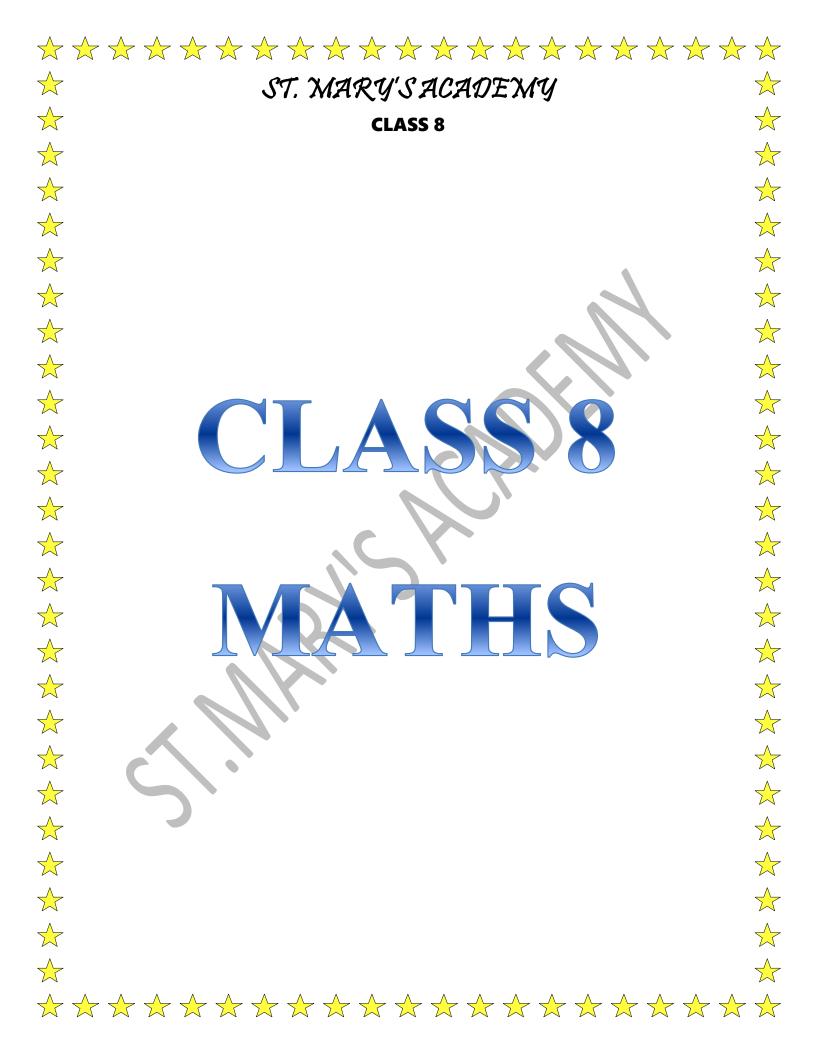
	ST. MARY'S ACADEMY
	CLASS 8
3	) Bale (large Bundle)
В	sail (security that guarantees the appearance of a prisoner in a court when legally required.
4	) Altogether (completely)
	All together:(joining all the others
5	) Birth:
	Berth:(long seat in a ship or a train)
6	Beside (close by)
	Besides (apart from)
7	) Brake (the brakes of a car etc)
	Break :(to damaging something)
_	
	Week 8
	Q. 1 Read carefully Chapter No. 4 and 5 from the English Book PTB 8 and answer the following uestions:-
C	Q i) Who is a magician?

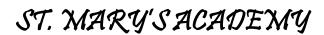
	ST. MARY'S ACADEMY
	CLASS 8
> ::\ \ \ /   +	is the first trial that the manifelian manifelians
ą. II) wnat	is the first trick that the magician performs?
Q iii) How n	nany tricks did the magician show?
Ղ.(iv) What	trick would you perform if you were a magician?
Q. No. 2) (i)	What is an exhibition?
	F1F-17
ii) Why ex	hibitions are important?



	MARY'S ACADEMY
	CLASS 8
	n given in Grammar Book Page No. 16 and 17 and write dow
he letter to your father asking hi	im about the health of your mother.
Examination Hall,	
A. B. C. ROAD, City X.Y.Z	
Date:	
Dear Father!!	
Jear Fatherti	
	<del>-</del>

	ST. MARY'S	ACADEMY	
	CLAS	S 8	
			•
Anxiously waiting for y	our reply.		
Yours affectionately, X.Y.Z			
	7		
	119		
		,	
C/.			
7			





#### **CLASS 8**

Name: Section:

Subject: Mathematics

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 $\stackrel{\wedge}{\nearrow}$ 

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 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\nearrow}$ 

Assessment No.3 Total Marks: 25

Q-1) Find the product of the following:

i) 
$$[6 \quad -0] \begin{bmatrix} 4 \\ 0 \end{bmatrix}$$

ii) 
$$\begin{bmatrix} 1 & 2 \end{bmatrix} \begin{bmatrix} 5 \\ -4 \end{bmatrix}$$

i) 
$$\begin{bmatrix} 6 & -0 \end{bmatrix} \begin{bmatrix} 4 \\ 0 \end{bmatrix}$$
 ii)  $\begin{bmatrix} 1 & 2 \end{bmatrix} \begin{bmatrix} 5 \\ -4 \end{bmatrix}$  iii)  $\begin{bmatrix} 1 & 2 \\ -3 & 0 \\ 6 & -1 \end{bmatrix} \begin{bmatrix} 4 & 5 \\ 0 & -4 \end{bmatrix}$ 

Q-2) Let A = 
$$\begin{bmatrix} -1 & 3 \\ 2 & 0 \end{bmatrix}$$
, B =  $\begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$ , C =  $\begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix}$ . Verify whether (5)

i) 
$$A(B+C) = AB + AC$$

Q-3a) Which of the following product of matrices is comfortable for multiplication. (2.5)

$$\mathsf{i)} \qquad \begin{bmatrix} 1 \\ -1 \end{bmatrix} \begin{bmatrix} 0 & 1 \\ -1 & 2 \end{bmatrix}$$

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

b) If 
$$A = \begin{bmatrix} 3 & 0 \\ -1 & 2 \end{bmatrix}$$
 and  $B = \begin{bmatrix} 6 \\ 5 \end{bmatrix}$ , then find; (2.5)

Q-4) For the matrices 
$$A = \begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$$
 and  $B = \begin{bmatrix} -2 & 6 \\ 3 & -9 \end{bmatrix}$ , prove that; (5)

i) 
$$(AB)^t = B^t A^t$$

Q-5) Multiply the following matrices.

 $\checkmark$ 

 $\Rightarrow$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

(a) 
$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 3 & 4 \\ -1 & 1 \end{bmatrix}$$

(b) 
$$\begin{bmatrix} 8 & 5 \\ 6 & 4 \end{bmatrix} \begin{bmatrix} 2 & -\frac{5}{2} \\ -4 & 4 \end{bmatrix}$$

# 

#### **CLASS 8**

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

## Subject: Mathematics

**Worksheet No: 4** 

#### Q) Fill in the blanks:

 $\stackrel{\wedge}{\longrightarrow}$ 

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 $\stackrel{\wedge}{\longrightarrow}$ 

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 $\Rightarrow$ 

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 $\stackrel{\wedge}{\searrow}$ 

- i.  $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$  is called \_\_\_\_\_ matrix.
- ii. Matrix A+B can be found, if the order of A and B is \_\_\_\_\_
- iii. Order of transpose of  $\begin{bmatrix} 2 & 1 \\ 0 & 1 \\ 3 & 2 \end{bmatrix}$  is \_\_\_\_\_.
- iv. A matrix is called \_\_\_\_\_ matrix, if number of rows and columns are equal.
- v. Product of  $\begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix}$  is \_\_\_\_\_.
- vi. Additive inverse of  $\begin{bmatrix} 1 & -2 \\ 0 & -1 \end{bmatrix}$  is \_\_\_\_\_\_.
- vii. In matrix multiplication, in general, AB \_\_\_\_\_\_BA.
- viii. Transpose of  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$  is \_\_\_\_\_\_.
- ix. The condition of skew-symmetric is  $A-A^t = \underline{\hspace{1cm}}$ .
- x.  $\begin{bmatrix} 0 & 7 \\ 7 & 0 \end{bmatrix}$  is called \_\_\_\_\_ matrix.

#### Q1) Which if the following product of matrices is comfortable for multiplication.

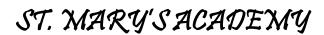
- i.  $\begin{bmatrix} 1 & -1 \\ 1 & 0 \end{bmatrix}$  and  $\begin{bmatrix} 2 & -1 \\ 1 & 3 \end{bmatrix}$
- ii.  $\begin{bmatrix} 3 & 2 & 1 \\ 0 & 1 & -1 \end{bmatrix} \text{ and } \begin{bmatrix} 1 & -1 \\ 0 & 2 \\ -2 & 3 \end{bmatrix}$

#### Q2) Multiply the following matrices:

- i.  $\begin{bmatrix} 8 & 5 \\ 6 & 4 \end{bmatrix}$  and  $\begin{bmatrix} 2 & -5/2 \\ -4 & 4 \end{bmatrix}$
- ii.  $\begin{bmatrix} -1 & 2 \\ 1 & 3 \end{bmatrix}$  and  $\begin{bmatrix} 6 & 0 \\ 0 & 0 \end{bmatrix}$

# Q3) Let A = $\begin{bmatrix} -1 & 3 \\ 2 & 0 \end{bmatrix}$ , B = $\begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$ and C = $\begin{bmatrix} 2 & 1 \\ 1 & 3 \end{bmatrix}$ then verify that:

- i. A (BC) = (AB) C
- ii. A(B-C) = AB AC



#### **CLASS 8**

Q4) Solve the following questions.

i. 
$$A = \begin{bmatrix} 1 & -2 \\ 3 & 4 \end{bmatrix}$$
 and  $B = \begin{bmatrix} 0 & 7 \\ -3 & 8 \end{bmatrix}$  then find  $2A^t - 3B^t$ 

ii. If 
$$2\begin{bmatrix} 2 & 4 \\ -3 & a \end{bmatrix} + 3\begin{bmatrix} 1 & b \\ 8 & -4 \end{bmatrix} = \begin{bmatrix} 7 & 10 \\ 18 & 1 \end{bmatrix}$$
, then find a and b.

iii. If 
$$A = \begin{bmatrix} 3 & 0 \\ -1 & 2 \end{bmatrix}$$
,  $B = \begin{bmatrix} 6 \\ 5 \end{bmatrix}$  then find;

 $\Rightarrow$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\Rightarrow$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

 $\Rightarrow$ 

 $\stackrel{\wedge}{\Longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

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 $\bigwedge$ 

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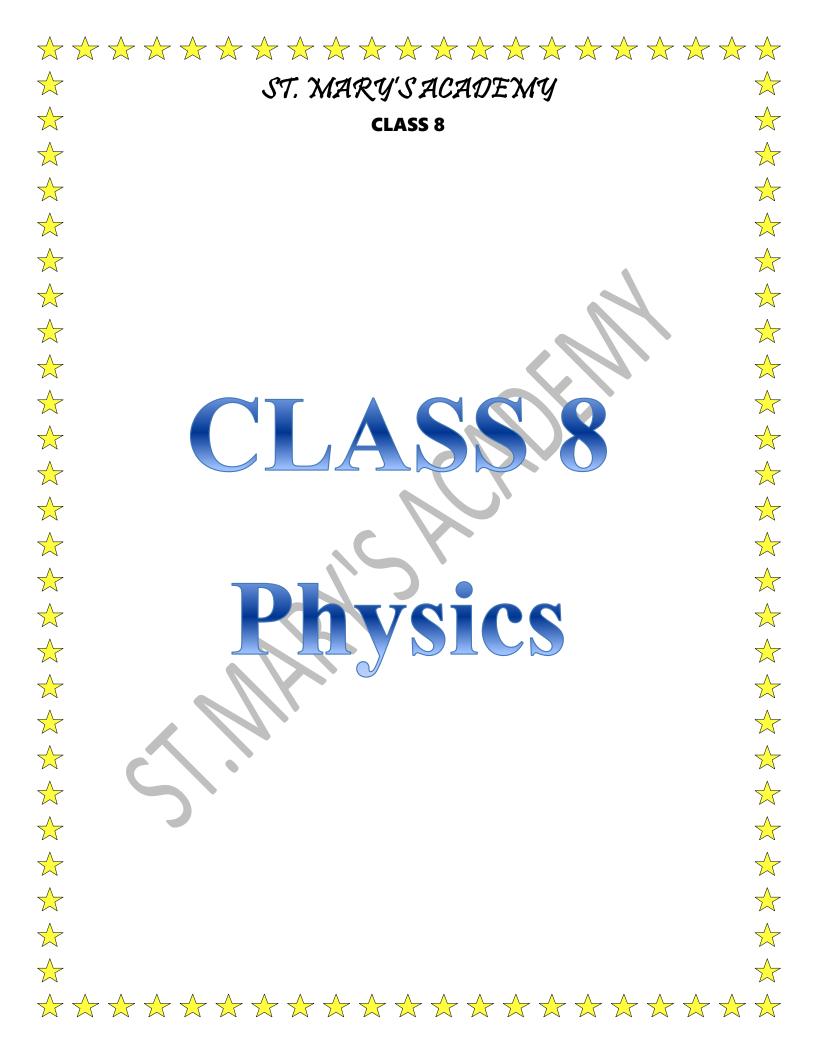
 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\longrightarrow}$ 

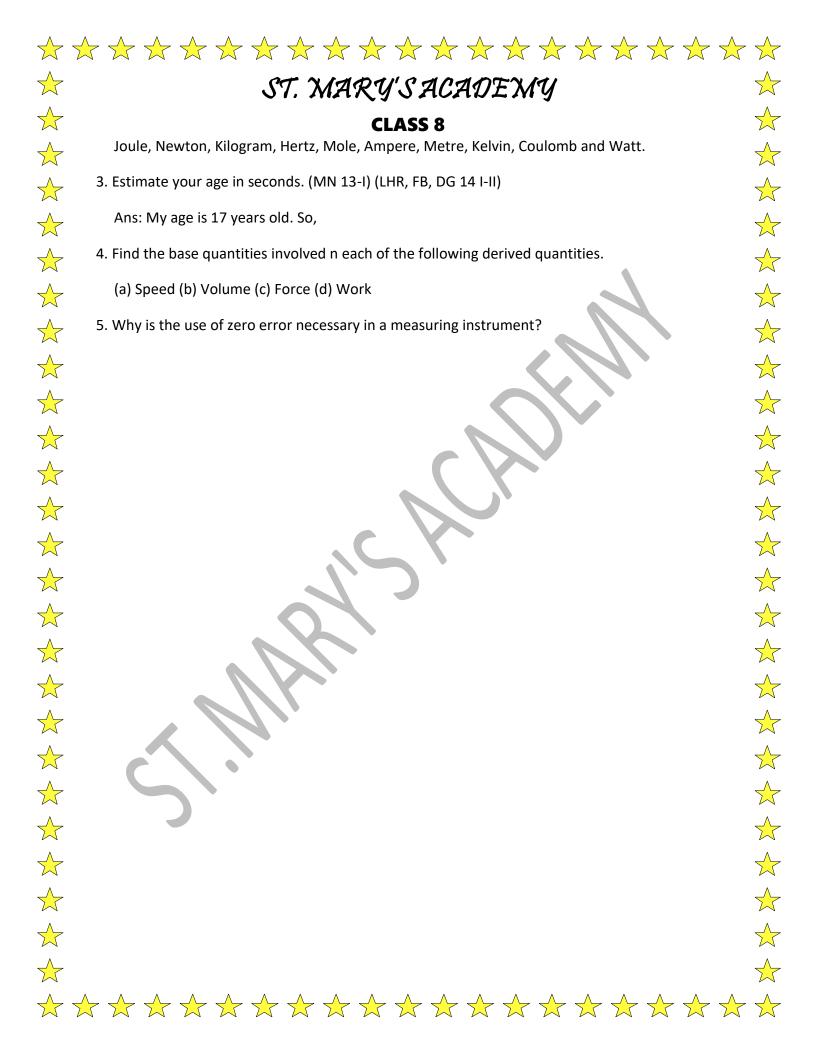
 $\stackrel{\wedge}{\longrightarrow}$ 

 $\stackrel{\wedge}{\Rightarrow}$ 

iv. Find 
$$(B.C)^t = C^t$$
.  $B^t$  when  $B = \begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$  and  $C = \begin{bmatrix} -2 & 6 \\ 3 & -9 \end{bmatrix}$ 



$\stackrel{\wedge}{\longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	ST. MARY'S ACADEMY	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	CLASS 8	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	Name: Section:	$\Rightarrow$
$\frac{1}{2}$	Subject: Physics Assessment No.3 Total Marks: 25	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$
$\Rightarrow$	Chapter 1	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	1. Which of the following is the study of fourth state of matter?	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	A: Quantum physics	$\Rightarrow$
$\Rightarrow$	B: Nuclear physics	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	C: Nanophysics	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	D: Plasma physics	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	2. You are not able to understand or do a part of experiment, what should you do?	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	A: Ask the teacher about it	$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$	B: Do it again and again, until you find its solution	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	C: Figure it out by trial and error method	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	D: Leave it and turn to next part	$\stackrel{\wedge}{\longrightarrow}$
$\Rightarrow$	3. Which is the most common instrument used in laboratories to measure length?	$\Rightarrow$
$\Rightarrow$	A: Meter ruler	$\Rightarrow$
$\Rightarrow$	B: Both meter rule and half meter rule	$\Rightarrow$
$\Rightarrow$	C: Half meter ruler	$\Rightarrow$
$\Rightarrow$	D: Measuring tape	$\Rightarrow$
$\Rightarrow$	Write short answers of the following questions:	$\Rightarrow$
$\Rightarrow$	1. What is the difference between base quantities and derived quantities? Give three examples	$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$		$\Rightarrow$
$\stackrel{\wedge}{\longrightarrow}$	2. Pick out the base units in the following:	$\Rightarrow$
$\Rightarrow$		$\stackrel{\wedge}{\longrightarrow}$
$\stackrel{\wedge}{\longrightarrow}$		$\stackrel{\wedge}{\longrightarrow}$



	CLASS 8
Name:	Section:
Subject: Physics	<mark>Worksheet No: 4</mark>
1. Estimate your age in seconds?	
2. What is meant by Vernier constant?	
z. What is meant by Vermer constant:	
3. What do you understand by the zero erro	or of a measuring instrument?

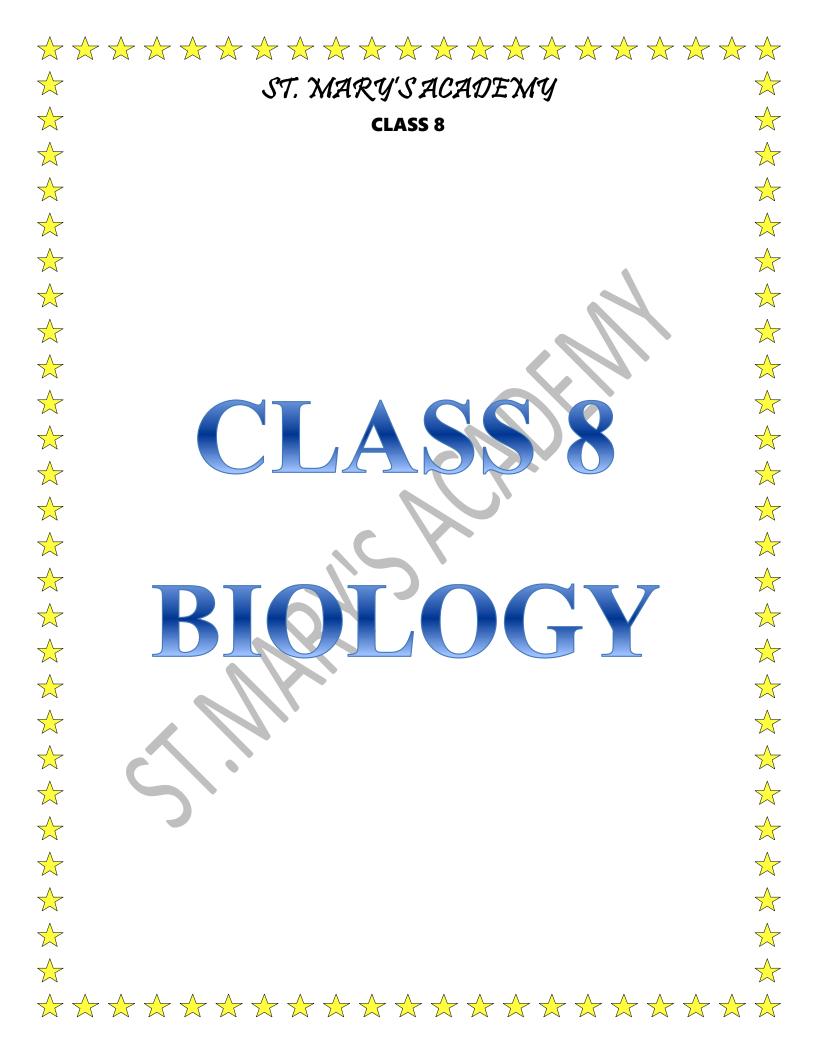
	ST. MARY'S ACADEMY
4. What is r	CLASS 8 meant by zero error and zero correction?
5. What do	you know about metre rule?
6. What is	meant by Base Quantities?
7 What is	meant by derived quantities? Give two examples.
	ant by prefixes?

37. M	IARY'S ACADEMY
	CLASS 8
3. Write down two rules to find the sig	;nificant digits in a measurement?
9. Why there is a need of some standa	rd quantities?
LO. How do we use stopwatch?	

	Y'S ACADEMY
C	LASS 8
.1. Define atomic physics and nuclear physics?	
11. Define atomic physics and nacieal physics:	
.2. Define mechanics and geophysics?	
.3. What is meant by International System of Un	its?

		I'S ACADEMY LASS 8	
14. Define Heat and		LAJJ 0	
45 David (4.25	14.453		
15. Round of 1.35 an	.0 1.45?		
16 What is meant h	y significant figures and how	many significant figures are th	nere in 0.01784?
10. What is incarre by	y significant rigures and now	many significant rigures are tr	icic iii 0.01704;
17. Define least coun	nt of screw gauge?		
Tr. Define least coun			

01, 1112	ARY'S ACADEMY
	CLASS 8
.8. Write the names of four derived units	5?
.9. Write the scientific Notation: (i) 100.8	sec (ii) 0.00580 km
20 What is the use of prefixes?	



•	ST. MARY'S		<b>y</b>	
(A) (	CLAS	_		
Name:		Section	n:	
Subject: Biology	<mark>Assessm</mark>	<mark>ent No.3</mark> – I	Total Marks: 25	
Q 1. Give brief answer	r of the following Qu	uestions.	(3x5=15)	
vi. Write down th	ne steps of Biological Mo	ethod?	A	
vii. Quantitative o	Quantitative observations are always better then Qualitative ones. Why?			
viii. How different Explain with e	organ and organ syster xample.	n performs the fun	ction of an individual?	
	petween population and			
x. Write a note o	on cellular organization.		X ,	
Q 2. Encircle the correc	t ontion		(5)	
2 2. Literiale the correc	t option.		(3)	
	llowing is a correct sequer	nce in biological meth	nod?	
<ul><li>a. Observations, Hypot</li><li>b. Hypothesis, Observa</li></ul>	thesis, Law, Theory ations, Deduction, Experin	nentation		
• •	thesis, Deduction, Experim			
d. Law, Theory, Deduct	•			
2 Akindetala materialia di	i a la giat un de l'Au l'au	uaaaanii =2		
a. While taking observati	iologist most likely to use ions b. Duri	reasoning? ng hypothesis formu	lation	
-			<del>-</del>	
c. During data organizati	on d. Nor	ne of the above		
3. If a scientist is studyin	g the methods of inserting	g human insulin gene	in bacteria, which branch	
of biology may this be?		_		
a. Anatomy	b. Physiology c	. Biotechnology	d. Pharmacology	
4. When we study the of organization we a	_	lifferent animal speci	es of a forest, at what leve	
a. Individual	b. Population c	. Community	d. Biosphere	
	es also makes the glandul		d Name of the control	
a. Epithelial tissue	b. Muscle tissue c	. Connective tissue	d. Nervous tissue	
Q 3. Describe the orgar	n and organ system le	vel in detail.	(5)	

	ST. MARY'S	ACADEMY
	CLASS	8
Name:		Section:
Subject: Biolog	Ŋ	Worksheet No: 4
NOTE FOR THE ST	JDENTS:	
Learn all the work giv	en in the worksheet and pra	ctice daily.
WEEK 7		
<u>Chap # 1</u>		
INTRODUCTION TO	BIOLOGY	
<u>DAY 1</u> :		
Learn the Answers	of the following questions.	
Q 1. Describe the Cont	ibution of Muslim Scientists in	the field of Science.
Muslim scientists hav	e made great contributions to	o the study of science.
introduced experime	-	in Iran and practiced medicine in Iraq. Ho and also wrote a number of books on plant and "Al-Haywan".
	famous writings include "Al-A	ered the first Muslim scientist who studied Abil (camel)", "Al-Khail (horse)", "Al-Wahoosl
in the West. He was	•	e founder of medicine and called as Avicenna stronomer and poet. One of his books "Al e in West.
Q. 2 Write down diff	erent levels of Organization.	
In order to understan different levels, which	•	life, biologists study biological organization a
1. Subatomic and	Atomic level	



# **CLASS 8**

## i) Atom:

All types of matter are made up of elements and each element contains a single kind of atoms ('a': not, 'tom': cut).

#### ii) Subatomic Particles:

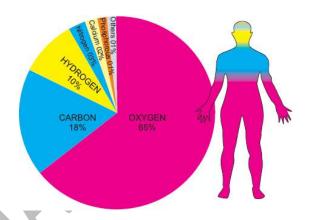
The atoms are actually made up of many subatomic particles.

The most stable subatomic particles are electrons, protons and neutrons.

#### iii) Bio Elements:

Out of the 92 kinds of elements that occur in nature, 16 are called bioelements. These take part in making the body mass of a living organism (Figure 1.2). Out of these bioelements;

Only six (O, C, H, N, Ca, & P) make 99% of the total mass. Other ten (K, S, Cl, Na, Mg, Fe, Cu, Mn, Zn, & I) collectively make 01% of the total mass.



## **DAY 2:**

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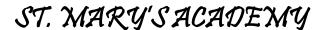
# 2. Molecular level

### i) Bio Molecule:

In organisms, bio elements usually do not occur in isolated forms rather they combine through ionic or covalent bonding. The stable particle formed by such bonding is called as molecule or biomolecule.

An organism is formed by enormous number of biomolecules of hundreds of different types. These molecules are the building material and are themselves constructed in great variety and complexity due to specific bonding arrangements.

## ii) Classification of Biomolecules:



# **CLASS 8**

Biomolecules are classified as i. Micromolecules ii. Macromolecules.

Micromolecules are with low molecular weight e.g. glucose, water etc.

Macromolecules are with high molecular weights e.g. starch, proteins, lipids etc.

# 3. Organelle and Cell level:

## i) Organelles:

Biomolecules assemble in a particular way and form organelles.

## ii) Cells:

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The organelles are actually sub-cellular structures and when they assemble together, units of life i.e. cells are formed.

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### iii) Division of Labour:

Each type of organelle is specialized to perform a specific function. For example; mitochondria are specialized for cellular respiration and ribosomes are specialized for protein synthesis. In this way, functions of the cell are accomplished by these specialized structures. It is an example of the **division of labour** within the cell.

# **DAY 3:**

# 4. Tissue level:

#### i) Definition:

In multicellular organisms, similar cells (performing similar functions) are organized into groups, called tissues. We can define a tissue as a group of similar cells specialized for the performance of a common function.

#### ii) Function:

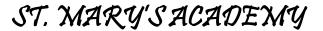
Each cell in a tissue carries on its own life processes (like cellular respiration, protein synthesis), but it also carries on some special processes related to the function of the tissue.

#### iii) Types:

There are different types of **plant tissues** e.g. epidermal tissue, ground tissue, xylem tissue etc. **Animal tissues** are also of different type e.g. nervous tissue, muscular tissues, epithelial tissues etc.

# 5. Organ and Organ system level:

## i) Organ:



# **CLASS 8**

In higher multicellular organisms more than one type of tissue having related functions are organized together and make a unit, called organ. Different tissues of an organ perform their specific functions and these functions collectively become the function/s of that organ.

## **Example**

For example stomach is an organ specialized for the digestion of proteins and for storing food. Two major types of tissue are present in its structure. Epithelial (glandular) tissue secretes gastric juice for the digestion of proteins. Muscular tissue performs contractions of stomach walls for grinding of food and moving food to posterior end. So two tissues perform their specific functions, which collectively become the function of stomach.

## ii) Organ System Level:

Different organs performing related functions are organized together in the form of an organ system.

In an organ system, each organ carries out its specific function and the functions of all organs appear as the function of the organ system.

### **Example**

For example, digestive system is an organ system that carries out the process of digestion. Major organs in its framework are oral cavity, stomach, small intestine, large intestine, liver, and pancreas. All these organs help in the process of digestion.

#### **Organ System in Plants:**

The organ system level is less complex in plants (e.g. root system) as compared to animals. This is due to a greater range of functions and activities in animals than in plants.

### **DAY 4:**

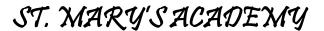
# 6. Individual level:

#### **Definition:**

Different organs and organ systems are organized together to form an individual or organism. In organism, the functions, processes and activities of various organs and organ systems are coordinated.

#### Example

For example, when a man is engaged in continuous and hard exercise, not only his muscles are working but also there is an increase in the rate of respiration and heartbeat. This



# **CLASS 8**

accelerated rate of respiration and heart beat supplies more oxygen and food to the muscles which they need for continuous work.

# 7. Population level:

#### **Definition:**

A population is defined as a group of organisms of the same species located at the same place, in the same time.

# **Example**

For example, human population in Pakistan in 2010 comprises of 173.5 million individuals (according to the Ministry of Population Welfare, Government of Pakistan).

# 8. Community level:

#### i) Definition:

A community is an assemblage of different populations, interacting with one another within the same environment. Communities are collections of organisms, in which one population may increase and others may decrease.

# ii) Types:

### a. Complex:

Some communities are complex e.g. a forest community, a pond community etc.

#### b. Simple:

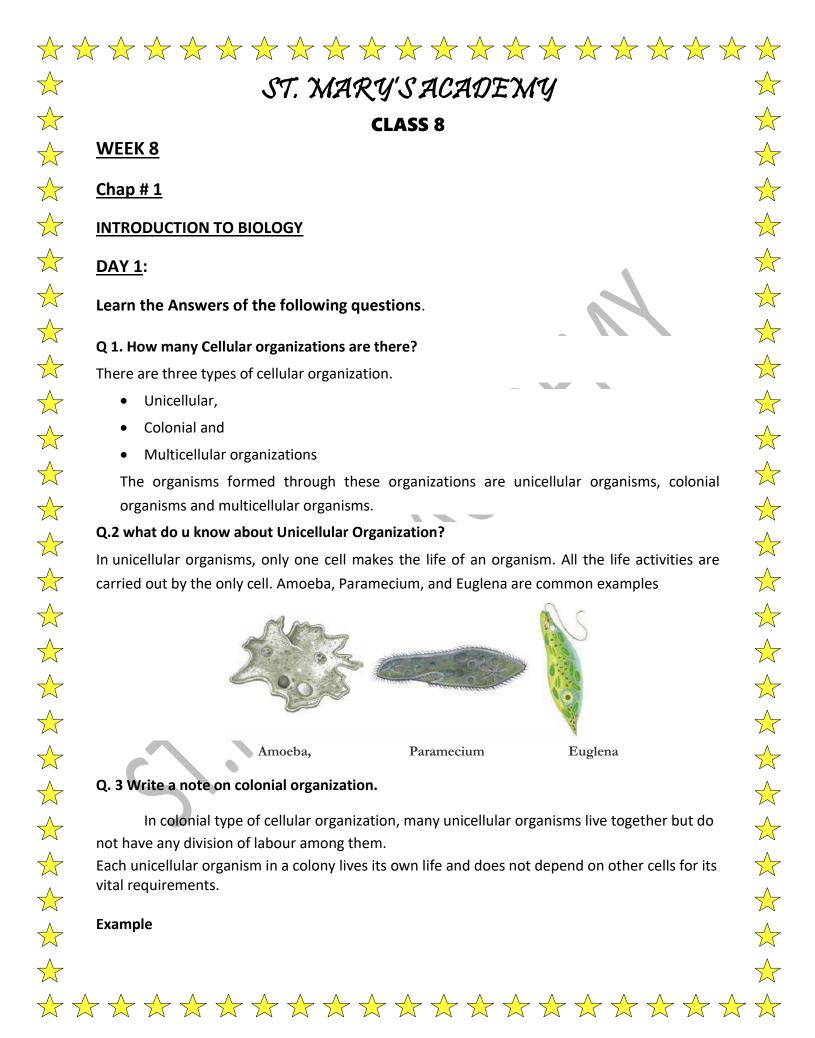
Some communities may be simple e.g. a fallen log with various populations under it. In simple community number and size of populations is limited. So any change in biotic or abiotic factors may have drastic and long lasting effects

#### Example

A forest may be considered as a community. It includes different plant, microorganisms, fungi and animal species.

# 9. Biosphere level:

The part of the Earth inhabited by organisms' communities is known as biosphere. It constitutes all ecosystems (areas where living organisms interact with the nonliving components of the environment) and is also called the zone of life on Earth.





## CLASS 8

Volvox is a green alga found in water that shows colonial organization. Hundreds of Volvox cells make a colony.

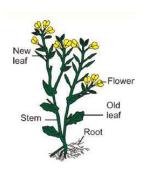
## Q. 4 Give some examples of Multicellular organization.

Cells are organized in the form of tissues, organs and organ systems. Frog and mustard and Human are the familiar examples of multicellular organization.

# Q. 5 What is the scientific name of Mustard plant and Frog?

Scientific name of Mustard plant Mustard plant is Brassica campestris.

And scientific name of Frog is Rana tigrina.





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## **DAY 2:**

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## Chapter # 2

# **SOLVING A BIOLOGICAL PROBLEM**

Learn the Answers of the following questions.

### Q 1. What is a Biological Method?

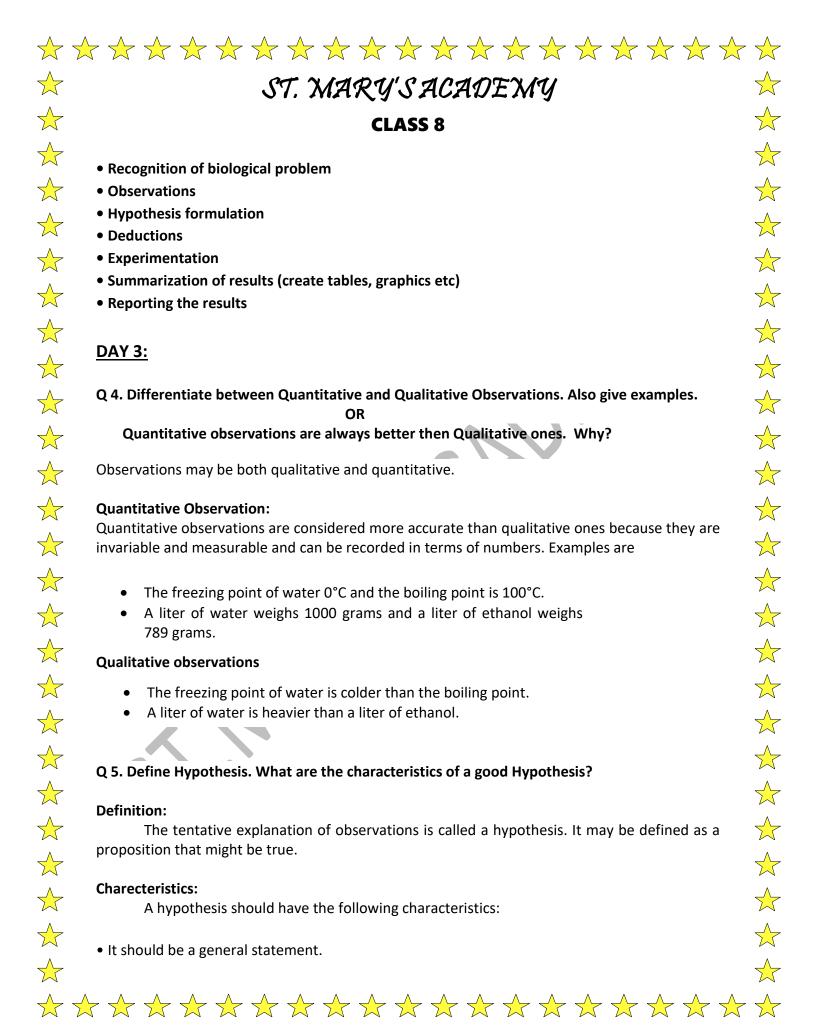
The scientific method, in which biological problems are solved, is termed as biological method. It comprises the steps a biologist adopts in order to solve a biological problem.

## Q 2. What is a biological problem?

Biological problem is a question related to life that is asked by someone or it comes in biologists mind.

### Q 3. What are the steps of Biological Method?

In solving a biological problem, biologist takes following steps;





- It should agree with available observations.
- It should be kept as simple as possible.
- It should be testable and potentially falsifiable. In other words, there should be a way to show the hypothesis is false; a way to disprove the hypothesis.

A great deal of careful and creative thinking is necessary for the formulation of a hypothesis. Biologists use reasoning to formulate a hypothesis.

## Q 6. What are Deductions? Explain with example

Deductions are the logical consequences of hypotheses. For this purpose, a hypothesis is taken as true and expected results (deductions) are drawn from it.

Generally in biological method, if a particular hypothesis is true then one should expect (deduction) a certain result. This involves the use of "if-then" logic.

"If Plasmodium is the cause of Malaria then every person ill with malaria should have plasmodium in their blood".

# **DAY 4:**

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# Q 7. Experimentation is the Basic step of a biological method. How?

The most basic step of biological method is experimentation. Biologist performs experiments to see if hypotheses are true or not. The deductions, which are drawn from hypotheses, are subjected to rigorous testing. Through experimentations, biologist learns which hypothesis is correct.

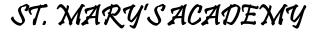
The incorrect hypotheses are rejected and the one which proves correct is accepted. An accepted hypothesis makes further predictions that provide an important way to further test its validity.

# Q 8. What is the difference between "Control" group and "Experimental" group?

In science when doing the experiment, it must be a controlled experiment. The scientist must contrast an "experimental group" with a "control group". The two groups are treated exactly alike except for the one variable being tested.

**Control group:** Is the one in which all experimental conditions are provided.

**Experimental group:** A group in which all conditions are same as that of control group except one factor being tested or checked.



# **CLASS 8**

### Example

In an experiment to test the necessity of carbon dioxide for photosynthesis, one can contrast the control group (a plant with freely available carbon dioxide) with an experimental group (a plant with no carbon dioxide available). The necessity of carbon dioxide will be proved when photosynthesis occurs in the control group and does not occur in the experimental group

### Q 9. Define the following:

#### i. THEORY:-

#### **Definition:**

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The hypotheses that stand the test of time (often tested and never rejected), are called theories. A theory is supported by a great deal of evidence.

## **Explanation:**

When a hypothesis is given a repeated exposure to experimentation and is not falsified, it increases biologists' confidence in hypothesis. Such well-supported hypothesis may be used as the basis for formulating further hypotheses which are again proved by experimental results.

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#### ii. LAW OR PRINCIPLE:-

#### **Definition:**

If a theory survives such doubtful approach and continues to be supported by experimental evidence, it becomes a law or principle. A scientific law is a uniform or constant fact of nature. It is an irrefutable theory.

#### Example

Examples of biological laws are Hardy-Weinberg law and Mendel's laws of inheritance.