

(1ST LATERAL ENTRY 2014) CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL (ENTRANCE EXAMINATION 11TH CLASS – 2014)

Total Time: 3 Hours

Name of Candidate: ______ Roll No. LE-1/2014-____

English (50)	Physics (50)	Chemistry (50)	Math/Bio (50)	Comp (50)	Tota (200			
, ,				,				
Board Roll No	:		Name:					
S.S.C Marks:	: Class 9 th /		Board (B IS E):					
	Class 10 th	1	(Encircle RA , if result awaited)					
Note: please se	nd copy of Detailed	Marks Sheet immediate	ly on declaration of SSC	C result.				
Telephone Nu	mbers:							
1. Mobile	e:							
	ence:							
Postal address								

Instructions:

- 1. Write your **ROLL NO** and **NAME** on the top of each paper.
- 2. Use same sheet for answers.
- **3.** Overwriting/ Cutting/ Erasing is not allowed.



CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL (ENTRANCE EXAMINATION 11TH CLASS – 2014)

	lo:		Nan	me:			-
	Q No 1 (10)	Q No 2	(10)	QN	03 (30)		Total (50)
			PAPER: P	HYSICS			
Q No:	1. Fill in the blank	ks with suitable v	ords.			(10)	
		of waves around ol					
	ii. The techniqu	e used to reduce	e the loss of	f sound ene	ergy by soft a	nd poro	us surface is called
i	iii. The ability of called	eye to change the	focal length	of its lens to	form clear imag	ge of an	object on its retina is
j	iv. The index of r	efraction depends	upon				
		's Law is valid for					
		hich does not char					
v	_			s a current	in another circu	it this p	henomena is known
				111	1 C		C .1 1 .
V1	iii.	hy applying valte		which are	emitted from a	not surta	ace of cathode trave
:		e by applying volta oppy has a storage		otyvoon			
	ix. The typical flox. The half-life o	f polonium ₈₄ Po ²¹	capacity of boots	etween			
	A. The han the o	1 potoma in 641 o					
Q No.2	2 Choose the corr Which of the follo	rect ans wer from				ent. (10)
	a. Alpha	-	Beta	c.	Gamma d.	Allof	these
ii.	Safe limit of radi	ation exposure p	er year is				
	a. 2 re m).1 rem c.	1.0 rem	d. 5 rem		
iii.	Which of the follo	owing is not proce	essing?				
	a. Arranging	b. 1	Manipulating	c.	Calculating	d.	Gathering
iv.	Not gate is also ca						
	a. Calculator		Converter	c.	Inverter d.	Divid	ler
v.	The time period of						
	a. 5 s		3 s	c.	2 s	d.	4 s
vi.	Mice can hear fre						
		b. :		c.	100,000 Hz	d.	25,000Hz
vii.	The Endoscope us						
	a. Gastro scope l			Broncho	scope d.	All of	these
		were introduced	•	Einstein	d El		
viii.		1 1		Hingtein	d. Flamir	ıg	
_	a. Coulomb		Faraday c.	Linstein			
viii.	a. Coulomb Dry human skin l	nas a resistance o	f about		20000 Ohm	d	100000 Ohm
ix.	a. CoulombDry human skin la. 1000 Oh m	nas a resistance o b.	f about 12000 Ohm	c.	20000 Ohm	d.	100000 Ohm
	a. Coulomb Dry human skin l	nas a resistance o b. a transformer a	f about 12000 Ohm	c.	20000 Ohm $N_s = 10 \text{ N}_p$	d. d.	100000 Ohm $V_s = V_p/10$
ix. x.	a. CoulombDry human skin la. 1000 OhmThe turn ratios of	b. a transformer a b.	$\begin{array}{l} \textbf{f about} \\ \textbf{12000 Ohm} \\ \textbf{re 10. It mean} \\ \textbf{N}_s = N_p/10 \end{array}$	c.		d.	
ix. x.	 a. Coulo mb Dry human skin I a. 1000 Oh m The turn ratios of a. I_s= 10 I_p 3. Give the brief and 	nas a resistance o b. f a transformer a b. lanswers of the follow	f about 12000 Ohm re 10. It mean N _s = N _p /10	c. ns c.	N_s = 10 N_p	d. (3 x 1	$V_s = V_p/10$ $0 = 30$
ix. x. Q No.	a. Coulomb Dry human skin I a. 1000 Ohm The turn ratios of a. $I_s=10 I_p$	nas a resistance o b. f a transformer a b. lanswers of the follow	f about 12000 Ohm re 10. It mean N _s = N _p /10	c. ns c.	N_s = 10 N_p	d. (3 x 1	$V_s = V_p/10$ $0 = 30$

What	is difference between Hard Disk and floppy? Also write their ranges.
 Gi ve 1	three reasons to support the evidence that cathode rays are negatively charged electrons.
 Differ	rentiate between self induction and mutual induction?
— What	is the function of circuit breaker in the electricity in homes?
In wh	ich combination of capacitors the each capacitor has the same potential difference?
What	is the difference between Telescope and Microscope?
A sou km?	nd wave has a frequency of 2 kHz and wavelength 35 cm. How long will it take to travel 1

A simple pendulum co	ompletes one vibration in	to two seconds. Calculate its length (whe	re g= 10



CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL (ENTRANCE EXAMINATION 11TH CLASS – 2014)

Roll No	Roll No:				Name:				
	Q No 1 (10)	O No	02 (10)	ı	0.1	To 3 (30)		Total (50)	
	Q 1401 (10)	QIII	72 (10)		Q1	(0.5 (30)		10tal (30)	
			DADE	D. RI	OLOGY				
Q # 01:	Encircle the correc	et ans wer.	IAIL	ж. Б	IOLOGI			(1x10=10)	
i.	A disease involved	l in break dow	n of air sac	es					
	a) Pneu monia	b)	Bronchit	is	c)	Asthma d)		Emphysema	
ii.	In human eye ther	e are about _	cones.						
	a) 5 lac	b)	7 lac	c)	5 millio	n d)		7 million	
iii.	Under production	of thyroxin c	auses						
	a) Goiter			b)	hyperth	yroidism			
	c) Hypothyro			d)	All of th	nese			
iv.	Osteoporosis is ca								
	a) Vitamin A			b)		and vitamin			
		nd vitamin B		d)	Proteins	& Vitamin	C		
v.	Which one is STD								
	a) Cholera b	,		SARS		d) Al	DS		
vi.	Movement of gene	_	_						
	a) Transfusio	on b)	Genetic o	drift	c)	Gene flow		d) Mutation	
vii.	Punnet was a								
	a) Biologist	b)	Chemist		Physicis			ne matician	
viii.	In food chain tree			awk :			econd		
	a) Caterpillar		Robin		c)	Hawk		d) Coyote	
ix.	Find the correct m			on pro		_			
		id-saccharomy	rces		b)	Ethanol- sa		•	
	c) Ethanol- a				d)	Glycerol- as	spergi	llus	
х.	Which of these add	_			-				
	a) Hallucinos	gens		b)	Sedative		d		
	c) Narcotics				d)	All can be u	isea		
O#01.	Fill in the blanks v	ith correct or	ac mar					(1x10=10)	
Q# 01.	Till till tile braiks v	viui correct ai	is wei.					(1310-10)	
	i. The prima	ry chemical st	imulus for b	reath	ing is the co	oncentration	of		
								·	
		ormone somato							
	iv	of thore somete	gland n	roduc	es a secretio	on that neutra	alizes t	the acidity of the fluid	
	sperm.	7	S P			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		210 ucidity of the fluid	
		l le has	hones						
		otype of a plan		ow m	any types o	of gametes ca	n be f	ormed	
		lo of avarage -	ito is	·					
		le of exoparas				·			
	viii. Interferon	is an	ro ore		hioigii.	ana infactio	10 0110	m voor	
	ix. According	g to WHO, the	e are		aen	gue infection	is ever	ry year.	
03 4=	x. Antibiotic s wer the short ques	cephalosporin	uestroys _			part of	me ba	$\begin{array}{c} \text{acterial cell} \\ (10 \times 3 = 30) \end{array}$	
Q3. An	State symptoms, ca		ment of emr	hvse	ma			(10X 3-30)	
1)	• •		•						

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What are uses of sedatives and an	algesics?
· 	
) How vaccines act?	

COLLEGE CHOA SAIDEN SHAH CHAKWAL (ENTRANCE EXAMINATION 11^{TH} CLASS – 2014)

	N.
KOH NO:	Name:

Q No 1 (10)	Q No 2 (10)	Q No 3 (30)	Total (50)

o: 1.Fi i.	ll in the blanks. When hydrogen Iod	ide is l	PAPER: CHI			ear du	e to for	(10) mation of
ii.	Calcium chloride is	used fo	or					
iii.	Your tears, perspirat	ion an	d blood taste is					
iv.	Sodium nitro prussic					G	roup.	
v.	The end Product of							
vi.			nanent storage plac					
vii.	Iron and steel struct	ares ar	e damage by					
viii.	Hard water contains	salts o	of					
ix.	A fuel oil which has							
х.	R-O-R' is the genera							
o: 2.	You have four	choice	s for each question	ı. Tick or	circle on th	e cor	rect ans	wer.
(1	x10=10)							
i.	$N_2+O_2 = 2$ NO. the	unit	of K _c for this react	ion will b	e			
	a. mol dm ⁻³	b.	$moldm^{-3}$	c.	no unit		d.	$mol^{-2}dm^{-3}$
ii.	NaH ₂ PO ₄ is called.							
	a. Acidic salt	b.	basic salt	c.	neutral		d.	double salt
iii.	The bond energy b							
	a. 200kJ mol ⁻¹	b.		c.	452 kJ 1	mo Ī	d.	355 kJ moĪ
iv.	The order of reacti					1101	u.	333 KJ 11101
1 .	a. HI> HBrb.	-	>HI c. HCl>			HBr>I	1C1	
v.	Carbohydrates pro			шы	u.	1101/1	ICI	
v .	a. 18 kJ	b.	17 kJ	c.	40 kJ		d.	10 kJ
:	Atmos pheric regio					form		
vi.		b.	mesosphere	c.	Troposph		d.	none of these
vii.	a. StratosphereA permanent hard			С.	Hopospii	icie	u.	none of thes
V II.	- 2	b.	Co_3^{-2}		HCO_3^-		d.	None
	a. So_4^{-2} Brown hair contain		J		HUO_3		a.	None
viii.						1	G 1.	
	a. Lead	b.	Calcium c.	iron	(d.	Sodiu	m
ix.	$C\overline{N}$ is called.							
	a. Lewis base		Arrhenius base	c.	Lewis aci		d.	None
Х.	Which one of the fo			nd is four	_	ne?		
	a. C_2H_4	b.	C_3H_8	c.	C_8H_{18}		d.	$C_{12}H_{26}$
o: 3.Gi	ive brief ans wers of th					(3×10))=30)	
i.	If a reaction has lar	rge val	ue of Kc, will it go	to compl	etion and v	vhy?		
		_						
ii.	Why all Bronsted a	cids a	re not Lewis acids	?				

iii.	What is ammonical liquor?
iv.	Prepare ethyl bromide from alkene.
v.	Write the name of any three fatty acids.
vi.	What is global warming?
vii.	Why organic compounds are dissolve in water.
viii.	Why detergents cause water pollution.
ix.	What is matte?
x.	Write the for mulas of the following a. Carbonic Acid b. Formic Acid c. Oxalic Acid



$\frac{CADET\ COLLEGE\ CHOA\ SAIDEN\ SHAH\ CHAKWAL}{(ENTRANCE\ EXAMINATION\ 11^{TH}\ CLASS-2014)}$

Roll No:	Name:	
	Q No 1 (30) Q No 2 (20) Total (50)	
	PAPER: MATHEMATICS	
Q No: 1.Fi	ill in the blanks. $(2 \times 15=30)$	
i.	Right bisector of the chord of a circle always passes through the	
ii. 	If $\tan \theta = \sqrt{3}$ then the value of θ isdegree.	
iii.	The extent of variation between two extreme observations of a data set is measured by	
iv.	If $\frac{u}{v} = \frac{v}{v} = k$ then $k^2 w = $	
v.	In the figure, 0 is the centre of the circle then the angle x is equal to	
vi.	If $b^2 - 4ac < 0$ then the nature of roots of $ax^2 + bx + c = 0$ is	
vii.	The complex cube roots of unity are	
viii.	A complete circle is divided intodegree.	
ix.	The length of a chord and the radial segment of a circle are congruent, the central Angle made by the chord will be	
х.	The measure of the external angle of a regular hexagon is	
xi.	tangents can be drawn for two touching circles.	
xii.	The mean proportional of 9p ⁶ q ⁴ and r ⁸ is	
xiii.	The solution set of $5x^2 = 30x$ is	
xiv.	The solution set of $5x^2 = 30x$ is Partial fraction of $\frac{x+3}{(x+2)(x^2+1)}$ are of the form	
XV.	The circular measure of the angle between the hands of the watch at 3'0 clock is	degree.

		Q.NO.2 <u>A</u>	TTEMPTS AL	L PARTS.		(5x4=20)
((i)					
		When θ lies in 2nd			gnometic Ratios at θ.	
((ii)	What is the differen	ce between Ont	o and Into fu	nction?	
	(''') D	C' A 1.1	XX7.14 1	1	CANA CAM	
	(111) D	efine Arithmetic mea	in. Write at least	three proper	ties of Arithmetic Mean	
						
((iv)	What is the differen	ce between inci	rcle and circu	mcirle? Discuss with fig	gures.
	(v)	How Many types o	f measures of ce	ntral tendenc	y. Write their names (an	y four).
					· 	
		<u>CADET (</u>	OLLEGE CHO NCE EXAMIN	OA SAIDEN ATION 11 TH	SHAH CHAKWAL CLASS – 2014)	
/ January Waller		(EXVITED)	VEL EXTRIVERY		2014)	
Roll No:			Na	me:		
Q No 1	(10)	Q No 2 (10	QN	03 (10)	Q No 4 (20)	Total (50)
				· · ·	. ,	. ,
			PAPER	ENGLISH		
Q No: 1 Tra	nslate	the following parag			(10)
						f resources but it cannot
-						r sustained agricultural
						ot make topsoil. Indeed, opsoil. A productive and
		ural system depends				r · · · · · · · · · · · · · · · · · · ·
 () No. 2 Tro	nglete	the following parag	ranh into Engli	sh	(10	n
						رر صدر نے ادیبوں، شاعروں، د
ے اجتماع سے	، بہآت بڑ	شاعروں آور آدیبوں کے	، ے	زَ ایک کتاب کے	ی مدد کریں۔ صدر گزشتہ رو	مملکت بنانے میں حکومت کے
						خطاب کر رہے تھے۔

play	No: 3.Read the following paragraph and answer the questions given at the end. (A man is known by the company he keeps. A good student should avoid the ying all the time. Many students miss their classes and seldom do their homework dents do the same. There are hardworking students also who work while others play	company of those who keep because some other fellow
and	I when to play. They enjoy the games of their choice because they know that play	
	alth. A sick student is not so quick in learning his lesson as healthy one.	
Que 1.	What kind of company should a good student keep?	
1.	What kind of company should a good student keep.	
2.	Why do some students miss their classes?	
2.	Wily do some statems mass their emisses.	
2	Why do good students enjoy good health?	
3.	Why do good students enjoy good health?	
4	Why are games necessary for students?	
4.	why are games necessary for students?	
5.	Where does the success of a student lie?	
QN	No: 4. (a) Change the narration. 1. He said, "My friend left for Lahore."	(5)
	1. The said, My friend left for Lanoic.	
	2. He said, "I enjoy my picnic with you."	
	3. I said to him, "Are you going today?"	
	4. Ali said to me, "Where do you live?"	
	Thousand the first the fir	
	5. The farmer said, "Alas! I am ruined."	
(1.)	Miles and the Called Ca	(F)
(b)	Make noun of the following words. 1. Gather	(5)
	2. Encourage	
	3. Decorate	
	4. Symbolic	
	5. Prosper	
(c)	Write synonym of the following words.	(5)
	1. Hard	
	2. Disgrace	
	 Reward Courage 	
	5. Conquer	
(d)	Find a suitable adverb to replace each adverb phrase.	(5)
\-7	1. The two old friends met each other by accident.	
	2. You should complete the work in a while.	·
	3. This plant flowers <u>once every year.</u>	

4.	She is without doubt the most caring person I met.	
_		

5. Our teacher wanted that work to be done without delay.

CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL 2ND LATERAL ENTRY 2015 CLASS XI

TIME: 03 HOURS	M ARKS: 200
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NAM E: ROLL #
BIOLOGY

Q. No: 1 Choose the correct option and write in the given column. 20

Sr. #	Question	Option A	Option B	Option C	Option D	Correct Option
1	Vegetative propagation in onion occurs by	Corns	Bulbs	Rhizome	All of these	
2	Stand of gynoecium which holds stigma is	Ovule	Style	Tube nucleus	None of these	
3	Protein which is found in DNA is	Prolene	Globose	Histone	None of these	
4	Which of the following is responsible for ammonification?	Nitrosomonas	Oomycetes	Saprobes	Nones of these	
5	Which of the following is non-carnivores?	Pitcher plant	Sundew	Venus fly trap	nightshade	
6	Which of the following is organization to conserve water?	UNDP	WWF	SLOPE	None of these	
7	Fermentation is carried out by	Lactobacillus	Yeast	Sacehaiymsis	All of these	
8	Genetic engineering uses type of bacteria.	Single stranded DNA	Plasmids	RNA	None of these	
9	Marijuana is extracted from	Cannabis sativa	Mushrooms	Akium sativum	All of these	
10	Amount of oxygen in inhaled air is	79%	0.04%	16%	21%	
11	Destruction of wall of alveoli is called	Asthma	Emphysema	Pneumonia	All of these	
12	Plants growing in saline are called	Heliophytes	Halophytes	Hydrophytes	None of these	
13	Kidney stone is cured by	X-rays	Lethargy	Lithotripsy	All of these	
14	Pairs of spinal nerves in human body are	24	15	18	31	
15	Myopia is another name if	Short sight	Long sight	Eye swelling	None of these	
16	Gigantism is caused by disorder of	Adrenal gland	Thyroid gland	Pituitary gland	Pancreas	
17	It is not a part of hind brain	Pons	Medulla	Cerebrum	Cerebellum	
18	Facial bones are in number	14	16	18	12	
19	The scar on seed coat, where seed attached to wall is called	Plumule	Epicotyle	Hilum	Radical	
20	Fluid containing sperm is termed as	Hilum	Semen	Deferens	meson	

Q. No: 2 Give brief answers of the following.

30

i. Describe commensalism.

ii.	Differentiate between alcoholic fermentation and lactic acid fermentation.
iii.	What are sedatives and narcotics?
iv.	Draw labeled diagram of nephron and describe its functions.
37	Discuss arthritis along with its types.
v.	Discuss artiffus along with its types.
vi.	Discuss anatomical structure of seed.
	CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL
	2 ND LATERAL ENTRY 2015
	CLASS XI
TIM E	E: 03 HOURS MARKS: 200
	NAM E: ROLL #
	CHEMISTRY
Q. No	
	15
i.	For a reaction between PCl ₃ and Cl ₂ to form PCl ₅ , the units of K _c are
ii.	All Bronsted bases are called Lewis
iii.	A solution of HCl is 0.01 M. Its P ^H is
iv.	Fehling solution is used to identify
v.	A reaction $CH_2=H_2 \rightarrow$
v. vi.	The deficiency of causes night blindness.
vii.	Cancer is caused by damage to

viii.	gas protects the earth surface from ultra violet radiations.
ix.	ions cause the hardness of water.
x.	Jaundice is caused by
xi.	Matte is a mixture of
xii.	One mole of SO ₂ contains atoms of oxygen.
xiii.	In K ₂ Cr ₂ O ₇ the oxidation number if Cr is
xiv.	number of electron make a triple covalent bond.
XV.	In Boyles Law
Q. No:	
1.	Empirical formula gives the information about the total number of atoms present in a
::	compound.
ii.	When the numerical value of K _c is smaller than Q _c the reaction will move in forward
:::	direction.
iii.	A reaction between an acid and base produces salt and water.
1V.	Unsaturated compounds show the reaction with KMno ₄ . NH ₃ and Nacl are used as a raw material for the manufacturing of Urea.
v. Q No.	
у но. i.	Define function group and which tests are used for the identification of aldehyde
1.	and amine group.
ii.	Prepare the following:
	a. Propane from alkyl halides
	b. 1,2-ethandial from ethane
	c. Ethane bromide from ethyne
iii .	
iv.	Define smelting and how can we get the pure cu metal by the refining process.
v.	Define electron affinity and why the electron affinity of fluorine is less than chlorine.
vi.	
	a. Calculate the number of molecules of log H ₂ CO ₃
	b. An atom A which have atomic number 15, tell use, how many electrons are
	present in last shell and also tell in which sub shell the last electrons is fire.
	CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL
	ABILITY TEST COMPUTER SCIENCE 2015
O1 F1	
	ll in the blanks.
1. ::	The character & also called A proper depends on the existence of complete documentation.
ii. iii.	If Auto generates line number that is already being used, a(n) symbol appears after the number to warn
111.	that any input will replace the existing line.
iv.	When an error occurs its code is assigned to a special variable, named
V.	A(n) if used has highest priority in a statement.
vi.	Statement specifies the location in the file where the record is being sent.
vii.	Color of code 3 in pallet-1 is
viii.	The shortcut key to insert superscript is
ix.	Find the result
x.	10 num%=35.73
	20 print nu m%
	Run
	·
xi.	Command is used to clear only the text from GW BASIC Screen.
xii.	The purpose of function is to obtain an integer value by simply dropping of the decimal part.
xiii.	In GW-Basic the maximum number of dimensions for an array is
xiv.	The statement is useful where the programmer does not know in advance how many times the
	loop will be executed.
XV.	Resumes the execution from the statement immediately following the statement that caused
****	error.
XV i.	A is an expression that either evaluates to true (usually represented by 1) or false (represented by 0).
xv ii.	Fornext is used to implement

xv ii.

xv iii.	Statement reads data input from a file on disk.
xix.	Syntax of Circle: Circle(x,y),radius[,[color][,[start],[end][]]]
XX.	is the process of carefully observing the working of an algorithm, on the paper, for some test data.
Q2 Atto	empt any six questions.
i.	Write Algorithm to find the sum of first hundred even numbers.
ii. iii.	Write a program to calculate the perimeter of a pentagon using read data statement. Write a short note on ForNext loop. Also Explain its Syntax
iv.	Write a program that read an array N with 20 numbers and find the product of the elements of array.
v.	Explain the EOF() function with the help of an example
vi.	Define the color statement and explain its syntaxes.

CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL 2ND LATERAL ENTRY 2015 CLASS XI

MARKS: 200

TIME: 03 HOURS

NAME: _____ROLL # ____

ENGLISH

Q. No: 01 Choose the correct option.

	05					
Sr. #	Question	Option A	Option B	Option C	Option D	Correct Option
1	Choose the correct spelling	Convelutions	Convolusions	Convalutions	Convolutions	
2	Which of the following does not mean as 'manifold'	Many	Various	Diverse	Few	
3	Beside the ungathered rice he lay. The underlined phrase is a/an	Adjective phrase	Noun phrase	Preposition phrase	Adverb phrase	
4	If I were you, I should not do that. This sentence is conditional sentence type	Type III	Type II	Type I	None of these	
5	I am glad that you like it. The underlined clause is an adverb clause of,	Conduction	Place	Time	Reason	

Q. No: 2 Choose the correct relative pronouns. 05

Sr. #	Question	Option A	Option B	Option C	Option D	Correct Option
1	Fareed said he needed most was a long and quiet holiday.	That	Which	What	Who	
2	Have you got anything these poor women could take for their children?	Which	That	Whom	What	
3	The man you were talking to is my cousin.	That	What	Whom	Which	

4	Have you seen the man bought a book from the shop?	That	What	Who	Which	
5	I have lost the pen I bought this morning.	Which	That	What	Whom	

Q. No: 3	Identify demonstrative, reflexive and interrogative pronouns in the
following	sentences.

	T T T1		. 4	_
1	Who	10	the	לי סדי
1.				

- He <u>himself</u> will be our new friend. ii.
- iii.
- Is this your book. ____ Which is your pen? __ iv.
- Hand me that hammer. v.

Q. No: 4 Give one word substitute for the following words.

1	Intercede	11	Promulgation	
2	Eternal	12	Jocund	
3	Reinvigorate	13	Glee	
4	Adhesive	14	Pensive	
5	Priority	15	Enormity	
6	Convict	16	Pivot	
7	Unprecedented	17	Adorned	
8	Chivalry	18	Woods	
9	Proselytizing	19	Harness	
10	Eradicate	20	Taboo	

Q. No: 5	Define clause and phrase and give one example for each.
Q. No: 6 each.	Differentiate between present participles and gerunds with one example for

Each me	edium has strengths that the other does not. Each makes use of strong points that the cks. Television news is like having a fast food meal whereas reading newspaper is like
	a ten course dinner. The ideal seems to be, if one has the time, to both read the news chit on television.
Q. No: 8	Translate into English.
-	، اعتمال کے اسلام اسلام اسلام اسلام اسلام کے اور کس سے کام کرے تاکہ وہ اپنیاز ندگی میں کا میاب ہو سکے۔ محنت اس دنیا کی سب سے بڑی حقیقت ہے جسکو جھلایا نہیں جاسکا۔ اگر ہم
ما کایک عظر	
	دوڑائیں تومعلوم ہو گا کہ جتنے بھی تنظیم آد می گزرے ہیں سب نے محنت اور ہمت ہے کام کیااور اپنی قسمت سنو اری۔
_	
_	
Q. No: 9	
i. I	He said to me, "He does his duty".
ii. Ī	He said to me, "I shall visit you soon".
iii. I	He said to me, "Do you smile"?
iv. Ī	said to him, "Did you occupy this house"?
v. T	He said to me, "Who are you"?
vi. T	He said, "What a fine day it is today".
_	
Q. No: 1	O Put correct form of the verb "be".
i. Y	You cannot see Ali, he out today.
ii. V	When I saw him, hein the garden.
iii. F iv. F	He ill for two weeks. He a doctor in two years.
v. V	Would that he rich.

Q. No: 11 Choose the correct spelling.

Sr. #	Option A	Option B	Option C	Option D	Correct Option
1	Persevere	perserve	Persever	Preservere	
2	Antibiotic	antibotic	antiboitic	Antiobotic	
3	Tweezers	Teezers	Twezers	Twesers	
4	Accessible	Assesible	Acessible	Accisseble	
5	Aptitu de	Amptitude	Ampitude	ampetude	

CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL 2^{ND} DIRECT ENETRY TEST (PHYSICS) Q No.1 Fill in the blanks with suitable words.

 $(1 \times 10 = 10)$

Q	Questions
1	Some people use silent whistle to call dogs whose frequency lies between
2	The endoscope use to diagnose the throat is called
3	Each bolt of lightning contains about of energy.
4	Ammeter in a circuit always connected in to measure large current.
5	We find the direction of force of current carrying coil by
6	OR gate gives maximum output if all the inputs are
7	Components of computer based information system are
8	Safe limit of radiations exposure per year is
9	The value of induced e.m.f is directly proportional to
10	Where the loops of a spring are close together are called
	O No 1 Tight the compact antion from the followings (1×10^{-10})

Q No.1 Tick the correct option from the followings. $(1 \times 10 = 10)$

Q. 1	Questions	A	В	C	D
1	The energy released in each fission is	200MeV	200e V	200me V	200keV
2	1024 megabytes are equal to	1GB	1kB	1TB	1PB
3	In C.R.O the potential of grid is	Negative	Neutral	Zero	positive
4	Transformer is used to change the value of	Voltage	Power	Energy	Charge
5	Electrical energy is given by	W=QV	W=QC	W=Qt	W=QR
6	The time period of double pendulum is	2 s	3s	4 s	1 s

7	In electric circuit when electrons move from low to high potential they	Gain potential	Lose energy	Gain energy	Gain power
8	Speed of sound in a liquid is times greater than in gases	3	4	15	5
9	The endoscope to diagnose the bladder is called	Gastro scope	Bronchoscope	Cystoscope	Stethoscope
10	Which of the following is not changed during refraction of light	Direction	Speed	Frequency	Wavelength

Q No.3 Give the short answers from the followings.

 $(3 \times 10 = 30)$

Total Marks: 200

Superintendent

- I. Differentiate between fission and fusion reaction with the help of chemical equations.
- II. What is difference between floppy and Hard Disk. Also give their ranges.
- III. Write the functions of electron gun and florescent screen in Cathode Ray Oscilloscope.
- IV. What is difference between permanent magnet and electromagnet?
- V. Write the difference between step-up and step-down a.c transformer.
- VI. Define parallel combination of resistors. In which combination voltage remains same.
- VII. What is a Mica capacitor?
- VIII. The power of a convex lens is 5D. At what distance the object should be placed from the lens so that its real and 2times larger image is formed?

Vhat is difference between noise and music? Also give their examples.

Vhat is the wavelength of radiowaves transmitted by an FM station at 90MHz? Where $1M=10^6$ and speed fradiowaves is $3x10^8$ ms⁻¹.

CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL $(3^{rd}$ LATERAL ENTRANCE EXAMINATION 11^{TH} CLASS-2016)

Total Time: 3 Hours

Name of Candidate:

Roll No: IV-LE-2/2017-

1 1002220 01 0				• • • • • • • • • • • • • • • • • • • •	
English	English Physics		Physics Chemistry Math/Bio		Total
(50)	(50)	(50)	(50)	(50)	(200)

Board Roll No:	Name:			
S.S.C Marks: Class 9 th /	Board (B IS E):			
S.S.C Marks: Class 10 th	(Encircle RA, if result awaited)			
Note: please send copy of Detailed Marks Sheet immediately on dec Telephone Numbers; 1. 2.	claration of SSC result.			
Postal address:				
Instructions: 1. Use same sheet for answers. 2. Overwriting /Cutting/Erasing in not allowed.				



BIOLOGY

Q no.1 (10)		Q no.2 (10)		Q no.3 (30)		Total Marks (50)
Sr#	Questions	A		В	С	D
1	Cells of cartilage are called	Matrix	Ch	ondrocyte	Osteocyte	None of these
2	Biceps ismuscles	Flexor]	Extensor	Puller	None of these
3	Generative nucleus then connects to	Egg cell	Endosperm ce ll		Both a&b	None of these
4	Cotton germinates	Epigealy	Н	ypogealy	Both a&b	None of these
5	Testis are located in bag of skin called	Urethra	Ep ididy mis		Scrotunm	None of these
6	Myopia is treated by	Concave lens	Co	onvex lens	Plane lens	All of these
7	Ginger is an example of	Rhizome	S	tem tuber	Bulb	Corms
8	Ovule contain egg cell and	Microspore	Polar bodies		Endosperm nuclease	All of these
9	Dengue fever is caused by	culex	aedes		anophelous	All of these
Find correct pair of fermentation and organism		(A) Ethanol_Saccharo myces		(B) Formic acid	_Saccharo myces	
	involved	(C) Glycero1_Aspergillus		(D) Ethanol_Aspergillus		

Q#1 Choose the correct option. =10)

(1 x 10

Q#2. I (10)	Fill in the blanks	
I. II. IV. V. Q#3:	Sulphonamides is an example of Interferon are anti-viral protein produced by The complete human genome project was published in Relation between termites and protozoam in its gut is an example of Nitrosomonas convert ammonia to Give short answers to the following. Each question carries three marks. (3 x 10=30)	
I.	What are chemical composition of chromosomes?	
II.	What are the types of cartilage?	_
III.	How Antagonist Muscles work?	
		-
IV.	What is Callus?	
		-
V.	Describe the Phenomenon of Alternation of generation?	
		-
VI.	How transcriptions occur?	

VIII. Wha	at is double fertilization?		
			
IX. Wha	at is parthenogenesis?		
X. Wha	at is meant by feedback mechanis	m?	

	CHEMISTRY					
Q no.1 (14)	Q no.2 (24)	Q no.3 (12)	Total Marks (50)			

Q#1: Tick or circle on the correct ans wer. $(1 \times 14 = 14)$

	(1 A 14 -14)			T	1
Sr#	Question	A	В	C	D
1	Soda lime is a mixture of	Cao and NaOH	Cacl ₂ and NaOH	Cao and ca(OH) ₂	CaCl ₂ and KOH
2	When a catalyst is added to a system at equilibrium	The value of the equilibrium constant changes	The equilibrium concentration changes	A new lower energy pathway is established	The rate of forward and reverse reaction are not longer equal
3	Aromatic compounds are given this name because of	Smell they have	Slippery touch they have	Bitter taste they have	None
4	Ester are recognized by their	Fruity s mell	Rotten egg smell	Greenish colour	None
5	NH ₂ is the functional group of	Esters	Amines	Alkyl halides	Alcohols
6	Hypoglycemia results due to	High sugar level in body	High cholesterol level	Low sugar level	Low cholesterol level
7	The molten mixture of cu ₂ s .Fes is called	Gange	Slag	Mineral	Matte
8	Which type of metals are responsible for hair colaar	Alkali metals	Alkaline earth metals	Transition metals	Noble metals
9	Dio xins and Furans are the part of	Natural gas	Flue gas	Crude oil	Residual oil
10	Mercury poisoning causes	High blood pressure	Neurological damage	Kidney damage	None
11	Oxidation of alkenes produce	Glyoxal	Glycol	Oxalic acid	formic acid
12	Alkenes are prepared from	Dehydrogenations	Dehalogenation	Dehydration	dehydrohalogenation

13	precipitated out of solution when aqueous sodium hydroxide solution is added to ferric chloride(FeCl ₃)	White	blue	Dirty green	brown
	FeCl ₃ +3NaOH→Fe(OH) ₃ +Nacl Colour of the precipitate is				
14	According to Lewis concept, acid is a substance which can.	Donate proton	Donate a pair of electron	Accept proton	Accept a pair of electron

How can you prepare ethene from alcohol and ethyl bromide? How can you justify that Pb(OH)No ₃ is a basic salt? Why alkanes cannot be oxidized with KMno ₄ solution? How you justify RNA works like a messenger? What are the causes of hardness in water? Write the chemical reactions of nitric acid for the following. (i) CaCo ₃ (ii) Zn (iii) Cu Why a small amount of coke is required in smelting process. Describe the chemistry of swimming pool cleanliness.		x 8 = 24)
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	De	scribe the chemistry of swimming pool cleanliness.
(4)	TE: AT	TTEMPT THE FOLLOWING QUESTION.
	TE: AT (a)	TEMPT THE FOLLOWING QUESTION. Explain that agricultural effluents are fatal for aquatic life.

	(b) (2)	Write the equation of oxidation of	A lkenes with KMnO ₄ .	
Q#4:	(a) (3)	why strong acids have weak conju	gate base and weak acids have strong	g conjugate base.
	(b) (3)	Write the macroscopic characteris	tics of chemical equilibrium.	
	Q n	COM PU?	TER SCIENCE Q no.2 (40)	Total Marks (

#	Questions	(a)	(b)	(c)	(d)
i	A proper depends on the existence of complete documentation.	Testing	Debugging	Maintenance	Coding
ii	If two or more statements are written on a line, they must separated by a:	colon	Semi Colon	Comma	Hyphen
iii	If Auto generates line number that is already being used, a(n) appears after the number to warn that any input will replace the existing line	Trailing exclamation sign	Trailing number sign	Asterisk	Ampersand
iv	Operator(s) always evaluates to true or false.	Concatenation	Relational	Arith metic	Assignment
v	When an error occurs, its code is assigned to a special variable, named	Erl	Err	Error	Er

vi	inde x value	loop has been used to change the es of rows and loop has been used he index values of columns.	For, while	Outer, inner	Inner, outer	None of these
vii	Astatement.	if used, bears the highest priority in a	Function	/	%	None of these
viii		Statement specifies the location in the the record is being sent.	Get	input	Read	None of these
ix	The shortc	ut key to insert subscript is	Ctrl+SHIFT+=	Ctrl+SHIFT	Ctrl+=	Ctrl+K
X	Which key selected we	board shortcut key is used to make the ord bold?	Ctrl+B	Alt+B	Ctrl+K	SHIFT+B
	Q1. Cł	noose the Correct Answer.				(1 x 10
	=10)					(I A IV
		mpt any eight parts. [8*5=40] What is meant by Coding?				
	2. Atte	mpt any eight parts. [8*5=40]				
	2. Atte	mpt any eight parts. [8*5=40]	command.			
	2. Atte i.	mpt any eight parts. [8*5=40] What is meant by Coding?				

iv.

v.

Write limitations of flowcharts.

Write any four rules for naming Variables in BASIC.

		o, write a program to print digits from	. 1 t0 20.	
Vii	What is the differ	rence between CLEAR and CLS com	nmand?	
Viii	Define Concatena	ntion operator with example?		
ix	What is an Array?			
X	Define nested loo	p?		
		ENGI		
Qı	no.1 (20)	Q no.2 (15)	Q no.3 (15)	Total Marks
01 (e	Translate the fe	Howing paragraph into Urdu		/50
There depres radio v	is a frequently askessing. It is always swould replace books	d question. What would the world be aid that the latest technology signals. The fear has persisted throughout wing paragraphs into English.	the demise of books. Decades a	question is absurd and
There depres radio v	is a frequently askersing. It is always swould replace books ranslate the following (10)	d question. What would the world be aid that the latest technology signals. The fear has persisted throughout w	the demise of books. Decades a vith the inventions of television	question is absurd and ago it was thought that and internet.
There depres radio v	(10) is a frequently aske ssing. It is always s would replace books ranslate the followi (10) الدون المرابع	d question. What would the world be aid that the latest technology signals s. The fear has persisted throughout we are the fear has persisted throughout the fear has persisted through	the demise of books. Decades a vith the inventions of television	question is absurd and ago it was thought that and internet.
There depres radio v	(10) is a frequently aske ssing. It is always s would replace books ranslate the followi (10) الدوه نوا پڑھ کر بہت تو ش ہوا۔ اس	d question. What would the world be aid that the latest technology signals. The fear has persisted throughout wing paragraphs into English.	the demise of books. Decades a vith the inventions of television	question is absurd and ago it was thought that and internet.

(5)	
three kinds of adverb.	(c) Define adverb and write (5)
Q.3(a) Define cataphoric and anaphoric reference w (10)	ith one example for each.

	MATHEMATICS						
Q no.1 (20)	Q no.2 (10)	Q no.3 (20)	Total Marks (50)				
			/50				

Q1 (a). Choose the Correct Answer. (1x10=10)

#	Questions	(a)	(b)	(c)	(d)
I	Roots of the equation $4x^2-5x+2=0$ are	irrational	imaginary	rational	None of these
ii	A statement which is expressed as equivalence of two ratios is called	Identity	Property of equivalence	Proportion	None of these
iii	A fraction in which the degree of the numerator is less than the degree of the denominator is called	An equation	A proper fraction	An improper fraction	An identity
iv	Mean is affected by change in	value	ratio	rate	None of these
V	The total of frequency up to an upper class limit or boundary is called	Frequency polygon	Frequency distribution	Histogram	Cumulative frequency
vi	The min imu m and the maximu m values defined for a class or group are called	Class boundary	Class limits	Class interval	None of these

vii	The terminal side of the angle 235 ⁰ lies in quadrant	I	II	III	IV
viii	A is the portion of a circle bounded by an arc and a corresponding chord.	Sector	Segment	arc	None of these
ix	Locus of a point in a plane equidistant from a fixed point is called	Radius	Diameter	Circle	None of these
X	0^0 is equal to	1	0	Both a & b	None of these

Q.1 (b) ii) iii) iii) iv) v)	Fill in the blanks A root of an equation which do not satisfy the equation is called The name of the method to derive a quadratic formula is If 2ω and $2\omega^2$ are the roots of an equation, then equation is If two chords of a circle are congruent, then they will be from the Centre If two circles touch each other, their centers and point of contact are	(5 x 2= 10)
Q.2 i.	Attempt the following questions What is a pure quadratic equation? (5 x 2=	10)
1.	what is a pure quadratic equation:	
ii.	What is synthetic division?	
iii.	Define joint variation with example.	
iv.	Differentiate between one-to-one correspondence and one-one function.	
v.	Differentiate between co-terminal and quadrantal angle.	

Q.3(b) Differentiate between function and relation.

(4)

Q.3(c) A road is inclined at an angle 5.7°. Suppose that we drive 2 miles up this road starting from sea level. How high above sea level are we? (4)

Q.3(d) Solve the equation $3 x^{-2} + 5 = 8x^{-1}$

(4)

Q.3(e) What is a cyclic quadrilateral?

Explain with example.

(4)

	PHY	YSICS	
Q no.1 (16)	Q no.2 (24)	Q no.3 (10)	Total Marks (50)
			/50

Q#1: Chose the correct answer from the following. 16=16)

(1 x

Sr					
#	Questions	A	В	C	D
1	When the frequency of sound wave is increased then which of the following will be decreased	Wavelength	Period	Both a and b	Amplitude
2	A simple pendulum complete its 20 vibrations in 2 minutes its time period will be	2 min	120 Sec	0.166 Sec	1 Sec
3	A sound wave has frequency of 2 KHz and wavelength 35 cm and travels 1.5km it will take	2.1 Sec	3 Sec	5 Sec	2.5 Sec
4	The refractive index of water is	1.00	1.33	1.66	2.42
5	In the case of convex lens, if the object is on 'F', then image will be	Beyond 2 F	Between F and 2 F	At F	No image formed
6	The value of constant 'K' in case of Coulomb's law	$9x10^{9}N^{2}m^{2}c^{-2}$	$9x10^{9} \text{Nmc}^{-2}$	9x109Nm ² c ⁻²	$9x10^9N^2mc^2$
7	Two small charged spheres are separated by 3mm which of the following produce the greatest repulsive force	+2q and +3q	+5q and -4q	+2q and -2q	All of these
8	A point charge of +2C is transferred from a point at potential 100 V to a point at potential 50 V. Energy supplied by charge will be	100 J	100 W	100 k J	100 k W
9	If the length of copper wire is 1 m and diameter is 2 mm, than resistance will be	5.4x10 ³ Ω	$5.4 \text{x} 10^{-3} \Omega$	$5.4 \times 10^{-3} \text{m}\Omega$	$5x10^3 \text{M '}\Omega$
10	If the price of one unit is Rs 12 and you use an energy saver of 50 W for 8 hours daily in your study room. Cost of one month bill will be	Rs.132	Rs.144	Rs.150	Rs.108
11	The induced e.m.f depends upon	Speed ofcoil and magnet	No. of turns	Power supplied	Both a & b

12	A step down transformer has a turns of 1:100. An alternating supply of 20 V is connected across the primary coil. Its secondary voltage	2000 V	1800 V	1500 V	2500 V
13	What does the terme-mail stand for	Emergency mail	Extra mail	External mail	Electronic mail
14	When gamma radiations are emitted from nucleus, what will be effect of this decay on atomic number of nucleus	Increases	Decreases	Remains same	Frictional change
15	In simple harmonic motion, the acceleration is directly proportional to	Displace ment	Force	Energy	Time period
16	The particle emitted from a hot metal surface are called	Electrons	Protons	Positive ions	Negative ions

Q.NO.2: Give short	answers	of the	following.
$3 \times 8 = 24$			

a). What is difference between simple and compound microscope?
b) Does the bend in wire effects its resistance?
c) What is meant by transverse and longitudinal waves?
d) A convex lens has focal length of 15 cm. At what distance should the object from lens be placed so that it forms an image at 10 cm from lens?
e) What is ripple tank? Also give the function of vibrator.
f) In which direction will a positively charged particle move in an electric field?
g) How much negative charge has been removed from a positive charged electroscope? If it has a charge of 7.5×10 ⁻¹¹ C?
h) What is AND gate? Draw its truth table and diagram.
Q.NO.3 a). What is difference between fission and fusion reactions? Give one equation for each reaction. (05)

b). State	and explain electrostatic law. (05)		
	CADET COLLEGE CHOA SAI 4 th lateral Entry		AL
	PAPER: BIOLOGY		IARKS: 50
Q No. 1	Pick the most correct option.		(12)
(i)	Micro organism used for the production of fo		
	(a) Aspergillus (b) Saccharo my si	is (c) Ba	cillus (d) All of these
(ii) (iii)	We eat onion, our tropic Level is: (a) Primary consumer (b) Secondary consum Cascuta sucks nutrients from vascular system		I) None of these
(111)	(a) Roots (b) Osmosis	-	a (d) All of these
(i v)			(d) This is the se
	(a) Lamark (b) Chales Darwin	n (c) Every	(d) None of
(v)	Human blood variation is the type of:		
(•)	(a) Incomplete dominance (b) Recessesive	(c) Co do minance	(d) All of these
(vi)	Mendal law of independent assortment is also (a) Monohybrid eross (b) Dihybrid	(c) Test cros	s (d) All of These
(vii			s (d) All of These
(,	(a) 1949 (b) 1951	(c) 1953	(d) None of these
(vii			
	(a) Cowpers (b) Vas deferens	(c) Scrotum	(d) None of these
(ix)			
()	(a) Bean (b) Pea	(c) Maize	(d) None of these
(x)	Single leaf of calex is also called (a) Sepal (b) Petal	(c) Corolla	(d) None of these
(xi)	1		(d) None of these
(111)	(a) Bulbs (b) Corms	(c) Rhizo me	(d) All of these
(xii	Binary fission is simply called.	, ,	. ,
	(a) Fission (b) Frag mentation	(c) Mitosis	(d) Both a, & b,
~	Give short and brief ans wers:		$6 \times 3 = 18$
1.	What is meanth by axial skeleton?		
2.	Write the function of meninges.		
	·		
3.	What is feedback mechanism?		
J.			

4.	How short sightedness is	treated?						
5.	Draw structure of nephro	n?						
6.	Define transpiration.							
QNo.3	Discus Gametogenesis wit Oogenesis. (10)	h diagram while	differentia	ting betw	veen speri	matogene	esis and	
							-	
				-				_
								_
QNo.4	What was the proposed me	odel of DNA by V	Watson an	d Crick?	7			(10)
								_
								-
O No.1	PAPER: CHEMIS				TO	OTAL M	ARKS: 5	50
(i)	1Mole of glucose has		atoms of o	carbon, _		0	foxygen	and
		of hydrogen.						
(ii)	Blonde hair contain c	•			-			
(iii)	K_4 [Fe (CN) ₆] is an ϵ	example of is used in alkaline	hottorios	Sal	ts?			
(iv) O No. 2	Tick or circle on the corr		e batteries.					
(xii								
,	(b) Esters (b)	Amines (c)	Alkyl ha	lides	(d)	Alcohol	8	
(xiv								
	(b) BF ₃ (b)	\mathbf{H}^{\dagger}	(c)	$\ddot{N}H_3$		(d)	NaCl	
(xv		-			(4)	NoC1		
(xv	(b) Octane (b)Night blindness is be	KCl	(c)	Na ₂ So ₄	(u)	NaCl		
(AV	(b) Vitamin A	(b) Vitami	•	(c)	Vitamin	C	(d)	Vitamin D
(xv				-				2
((b) Moldm ⁻³	(b) Mol ⁻¹ d	lm ⁻³	(c)	Mol ⁻¹ dn	n ³	(d)	Mol d m ³
(xv	(iii) Matte is a mixture of(b) Fes and CuS		nd FeO	(c)	Cu ₂ S an	d FeS	(d)	None
(xix	, ,			` /	2.5		` '	
	(b) 4.2 Kjg k	(b) 4.2 Jg ⁻¹		2.4 KJg	k	(d)	$2.4Jg^{\text{-}}k^{\text{-}}$	
(xx	-				CI 1		(1)	N. 63
(22	(b) Oxalic acidi) Which one of the fol	(b) Glycol		(c)	Gloxal		(d)	None of these
(xx	(b) Carbohydrates		ceriae?	(c)	Lipids		(d)	Vitamins
(vv	•			(-)	P140		(-)	

	(b) Absorb IR radiations (b) Absorb UV radiations (c) Absorb CFC _S (d) Absorb air Pollutants e the short ans wers of the following questions.
(i)	How slag is formed during smelting process?
(ii)	Write the names of components of a nucleotide.
(iii)	Write a reaction of oxidation of alkenes with potassium permagnate.
(iv)	Why CO ₂ is responsible for warming of atmosphere?
(v)	If a reaction has large value of K _C , will it go to completion and why?
(vi)	What are the limitations of Bronsted – Lowery Concept?
(vii)	What is the Source of geraniol? What functional groups are present in this group?
(viii)	How alkynes are prepared by dehydrohalogenation of vicinal dihalides?
(ix)	What is the difference between reducing Sugar and non reducing Sugar?
(x)	What is flue gas?
(xi)	How the detergents make the water unfit for aquatic life?

		CARE	TE COLLECTE CHOA CAIDEN GHAH OTTAY	XX7 A T
45 min		CADE	T COLLEGE CHOA SAIDEN SHAH CHAK	.WAL Total Marks:
+ 3 111111				i otal Walks.
date's Nan	ne:		F/Name:	
			English	
Q. 1	No.1 (a) Write synonym and <u>Words</u>	Urdu meaning of the following words.	(10) ing in Urdu
	i.	Diverse		
	ii.	Mellow		
	iii.	Chastened		
	iv.	Chivalry		
	V. (b)	Reeled Define the following g	rammar concepts with one example.	(10)
	(D) (1)	Present participle	(2) Gerund	(10)
O No 2	(a) C h	ange narration of the f	ollowing sentences	(5)
Q.110.2	i.	He said, "Let us go for		(3)
	ii.	The boy said, "What	do you want to do"?	
	iii.			
		He said, "I failed in t	he e xa m".	
	iv.		he exam". id you do your home task yesterday"?	
	iv. v.	The teacher said, "Di	id you do your home task yesterday"?	
			id you do your home task yesterday"?	
	v.	The teacher said, "Di	id you do your home task yesterday"? not run fast".	(5)
	v.	The teacher said, "Di She said to him, "Do nange voice of the follo	not run fast".	(5)
	v. (b) Ch	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m	not run fast". wing sentences. e to do.?	(5)
	v. (b) Ch	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m	not run fast".	(5)
	v. (b) Ch	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m	not run fast". wing sentences. e to do.? before writing this letter?	(5)
	v. (b) Ch i. ii.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi	not run fast". wing sentences. e to do.? before writing this letter? solve this problem?	(5)
	v. (b) Ch i. ii. iii.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to	not run fast". not run fast".	(5)
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go	id you do your home task yesterday"? not run fast". wing sentences. te to do.? before writing this letter? solve this problem? there.	(5) (10)
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go Call the next witness	id you do your home task yesterday"? not run fast". wing sentences. te to do.? before writing this letter? solve this problem? there.	(10)
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go Call the next witness	id you do your home task yesterday"? not run fast". swing sentences. te to do.? before writing this letter? solve this problem? there. chere.	(10) 1 - بير ي كار
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go Call the next witness	id you do your home task yesterday"? not run fast". wing sentences. te to do.? before writing this letter? solve this problem? o there. s. entences into English. - بر ق بر بر گئی۔ - بن چڑھ کے ۔	(10) 1- مير ي كار 2- وه گاڑي
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go Call the next witness	id you do your home task yesterday"? not run fast". wing sentences. e to do.? before writing this letter? solve this problem? o there. entences into English. - جنْ الْجَاءِ عَلَى الْمِالِيَّ عِنْ الْمِالِيِّ الْمِالِيّ الْمِالِيِّ الْمِلْمِيْلِيِّ الْمِالِيِّ الْمِلْمِيْلِيِّ الْمِلْمِيْلِيْلِيْلِيْلِيْلِيْلِيْلِيْلِيْلِيْل	(10) 1 - بر ي كار 2 - وه گاڑي پ
Q No. 3	v. (b) Ch i. ii. iii. v.	The teacher said, "Do She said to him, "Do nange voice of the follo What do you want m Had you left Karachi Who will propose to I asked you not to go Call the next witness	id you do your home task yesterday"? not run fast". wing sentences. te to do.? before writing this letter? solve this problem? o there. s. entences into English. - بر ق بر بر گئی۔ - بن چڑھ کے ۔	(10) 1 - بمري کار 2 - وه گاژي پ 3 - ع

are ea to	e as lee rly, ha the ne	Early 1 ep. The eve pler ext day.	rising is a early rise ty of time The early	good haters have to do to y riser is	an advan heir work	ives us tage als careful appy, fr	an early so. They of ly, steadily esh and s	enjoy goo ly and co mart. He	od and sound he ompletely. They	alth. Thosedo not hav	(10) e while the late risers e who are out of bed re to put off anything se who get up late do
				CAD			CHOA SA		HAH CHAKW	7 AL	
Time: 45 m	in										Total Marks: 5
Candi date	's Nan	ne:					1	E/Name:_			<u> </u>
Q. i)	. No.1				suitable to derive		ratic form	ıla is			
ii)		The su	mofallc	ube root	s of unity	is					
iii					f			11.1	4		
iv) v)									system of is		
vi)									9 18		•••••
vij									er of binary relat		< B
	,					. (1)					
vii	ii)	The y	– coordin	ate of ev	ery point	is		on $x - ax$	xis .		
ix					rence to t						
x)					are not						
_	.No.2		the most			2	1	0 11 1			
i)		An equal (a)			$x^4 + x^3$ -					procal equ	ation
		(d)	None o		iation	(0)	Kauica	irequatic	on (c) Reci	procarequ	ation
ii)		` /			$1x^2 + 8x$	+ 16 =	= 0 are				
,		(a)	Imagina	ary	(b)	Real a	and equal	(c)	Irrational	(d)	None of these
iii)				here x is the						
					≥ .				=		
iv))	A quae			th roots 3 (0) (b)				$x^2 sx - p =$	0	
		(d)	x - s None o	-	0 (0)	х –	sx + p -	0 (0)	x Sx - p =	U	
v)											
,		a) 68	(b)	66	(c)	64	(d)	62			
vi					3), (3, 3)	, (3, 4))} is				
	,		to function		(b)		unction	(c)	not a function	n (d)	1 – 1 function
vii					f f = B, tl					. • •	
			- 1 functi		(b)		unction	(c)	onto function	(d)	None of these
vii	11)			 Even	numbe	r Prime	(4)	None	of these		
ix)	(a) O	uu(b) in		(c) numb		e (d)	none	or these		
11,	,	(a)	Even	(b)	Prime	(c)	Odd	(d)	None of these	e	

Mode (b)

x)

(a)

..... is the middle most observation in an arranged data set.

Median (d)

None of these

Mean (c)

Q.No.4. The surface area S of the sphere varies directly as the square of radius r, and $S=16\pi$ when r =2, find r when $S=36\pi$

Q.No.5. A tree casts a 40 meter shadow when the angle of elevation of the sun is 25° . Find the height of the tree.

Q.No.6. Explain with examples that every relation is not a function.

Q.No.7. Solve the equation $\frac{x}{x-3} + 4 \left(\frac{x-3}{x}\right) = 4$

PAPER PHYSICS

OBJECTIVE TYPE

Q No.1 (16)	Q No.2 (24)	Q No.3 (10)	Total Marks (50)

NOTE: - You have four choices for each objective type question as A, B, C and D. Encircle the correct option. Cutting or encircling two or more options will result in zero mark. (1x16 = 16)

Q.1	Questions	A	В	C	D
1	The unit of e.m.f is	N/C	N C	СЈ	J/C

2	of a D.C motor reverses the direction of current through the coil in every half-cycle	Brushes	Commutator	Split rings	Armature
3	If $X = A + B$ then $X = 0$ when	A=0, B=0	A =1, B=1	A =0, B =1	A =1, B =0
4	One of the following is not a processing	Arranging	Manipulating	Calculating	Gathering
5	In computer terminology, information means	Any data	Large data	Raw data	Processed data
6	The number of neutrons in tritium $(_1H^3)$ are	1	2	3	0
7	The equation of Hook's law is given by	k=F x	F = -k x	F = k / x	F = x/k
8	The equation for time period of a spring mass system is	$T = 2\pi \sqrt{m/k}$	$T = 2\pi \sqrt{k/m}$	$T = 2\pi \sqrt{g/l}$	$T = 2\pi \sqrt{l/g}$
9	The intensity level of rusting of leaves is	0dB	30 dB	10 dB	40 dB
10	The refractive index of water is	2.42	1.00	2.21	1.33
11	The equation of electric intensity is	E = F/q	E = q / F	E=qF	All of these
12	5 joule of work is needed to shift 10 C of charge from one place to other. The potential difference between the two places will be	0.5 V	2V	5 V	10 V
13	The distance between center of curvature and pole of a mirror is equal to	f	2f	$\frac{1}{2}f$	$\frac{1}{4}$ f
14	Sound level in bell is given by	$10\log \frac{1}{l_0}$ bell	10log ^{Io} bell	log	log I bell
15	The time period of simple pendulum is	$T = 2\pi \sqrt{m/k}$	$T = 2\pi \sqrt{k/m}$	$T = 2\pi \sqrt{g/l}$	$T = 2\pi \sqrt{l/g}$
16	Speed of sound in a liquid is times greater than in gases	3	4	15	5

SUBJECTIVE TYPE

	SCDJEC TIVE I TI E
2.	Attempt all parts from the followings:
	$(3 \times 8 = 24)$
I.	Define pitch of sound. Also write the factors on which it depends.

I.	Define pitch of sound. Also write the factors on which it depends.
II.	Draw a ray diagram for an image when object is placed beyond 2F by using a convex lens.

What is difference between transverse and longitudinal waves? Give one example for each. III.

	Define Electric Fiel			
v	What is difference l	between Alternating current gener	rator and a transformer?	
VI	Define NA ND Gate	e. Also draw its symbol and truth	table.	
'II.	Write the names of	components of Computer Based	Information System.	
ш.	Write any three Haz	zards of Radiations on the human	beings.	
(a)	(2 x 5 = 10)). Define Nuclear Trai	nsmutations. Also discuss Alpha,	Beta and Gamma decays with one	e xa mple.
). Define Nuclear Transport of the Nuclear Tra		Beta and Gamma decays with one onductor a current of 1.5 A passes	
). Define Nuclear Transport of the Nuclear Tra	ntial difference of 10 V across a co		
). Define Nuclear Transport of the Nuclear Tra	ntial difference of 10 V across a country and the current in 2 minutes?	onductor a current of 1.5 A passes	
(b) en). Define Nuclear Transport of the Nuclear Tra	ntial difference of 10 V across a country and the current in 2 minutes?	onductor a current of 1.5 A passes	
(b) en). Define Nuclear Transport of the sum of all	ntial difference of 10 V across a common the current in 2 minutes? CADET COLLEGE CHOA 4th lateral En	SAIDEN S HAH CHAKWAL try Paper Math Q No.3 (30)	through it. How much

viii)	The y – coordinate of every point	is on $x - axi$	S	
ix)	π is the ratio of circumference to t	he		
x)	Two intersection circles are not			
Q.No.2	2 Choose the most correct option.			$(1 \times 10 = 10)$
i)	An equation of the type $x^4 + x^3$	$+ x^2 + x + 1 = 0$ called a	/an	
	(a) Exponential equation (b) Rac	lical equation (c) Rec	iprocal equation	
	(d) None of these			
ii)	The roots of the equation $x^2 + 8x$		•	
	(b) Imaginary	(b) Real and equal		(d) None of these
iii)	(x, y) (y, x) (where x is t	he domain and y is the rang	ge)	
	(b) ≠	(b) ≥	(c) ≤	(d) =
iv)	A quadratic equation with roots 3		_	
	(b) $x^2 - s + px = 0$	(b) $x^2 - sx + p = 0$	(c) $x^2 - sx - 3$	p = 0
	(d) None of these			
v)	$(1-w+w^2)^6 = \dots$			
	(a) 68	(b) 66	(c) 64	(d) 62
vi)	The relation $\{(1,2),(2,3),(3,3)\}$), (3, 4)} is		
		function (c) not a function		on
vii)	If f: $A \rightarrow B$ and range of $f = B$, t			0.1
•••		function (c) onto	o function (d) No	ne of these
viii)	Zero is a/an numbe			.1
:>	(b) Odd (b) Even	(c) Prime	(d) None of	tnese
ix)	1 is a/an numb		1 (d) N	414.
)	(a) Even (b) Prime is the midd	(c) Odd		tnese
x)	(a) Mode (b) Me		(c) Median	(d) None of these
	(a) Mode (b) Me	all	(c) Median	(d) None of these
ONo.3	Attempt the following questions.			$(5 \times 6 = 30)$
Z1 1010	The same roll of the strong strongs			(20 = 20)

(i) What is a bijective function explain with examples.

(ii) The surface area S of the sphere varies directly as the square of radius r, and S = $16\,\pi$ when r = 2, find r when S = $36\,\pi$

(iii) A tree casts a 40 meter shadow when the angle of elevation of the sun is 25° . Find the height of the tree.

(iv) Explain with examples that every relation is not a function.

(v) Solve the equation $\frac{x}{x-3} + 4 \left(\frac{x-3}{x}\right) = 4$

CADET COLLEGE CHOA SAIDEN SHAH CHAKWAL

Q No.1 (20)	Q No.2 (10)	Q No.3 (20)	Total Marks (50)

Paper English

Q. No.1 (a)	Write synonym an	d Urdu meaning of the fol	lowing	words.	(10)
	Words	Synonyms			Meaning in Urdu
vi.	Diverse				
vii.	Mellow				
viii.	Chastened				
ix.	Chivalry				
X.	Reeled				
(b)]	Define the following	g grammar concepts with	one exa	mple.	(10)
(1)	Present participle	(2)	Gerund	

.2 (a) Cha	ange narration of the He said, "Let us go			(5)
vii.	The boy said, "Wha	t do you want to do"?		
viii.	He said, "I failed in	the exam".		
ix.	The teacher said, "D	id you do your home task yes	sterday"?	
х.	She said to him, "Do	o not run fast".		
(b) Ch vi.	nange voice of the follow			(5)
vii.	Had you left Karach	i before writing this letter?		
viii.	Who will propose to	o solve this problem?		
ix.	I asked you not to g	o there.		
х.	Call the next witnes	s.		
. 3 (a) Tr	anslate the following s	sentences into English.		(10)
			اب ہو گئ ہے -	1 - میری کارخر
			يڙه سکے ۔	2 - وه گاڑی پرخہ
			سر ^ا ک مرمت کیلئے بند ہے۔	- 3
			ہ و فرشتہ صفت انسان ہے۔	
			ر سر کا یقین کروں۔ کس کا یقین کروں۔	
ranslate	the following paragra	nh into Urdu	-037 G. 60 ((10)
leep. The have plea next day	early risers have an a nty of time to do their . The early riser is alwa	dvantage also. They enjoy g work carefully, steadily and	our days work. We gain time wood and sound health. Those woompletely. They do not have e enjoys his work while those	who are out of bed to put off anything
	CADET (COLLEGE CHOA SAIDEN Paper Chemistry		
O No	.1 (04)	Q No.2 (10)	Q No.3 (36)	Total Marks (50)
~ 110	- (* -/	(_ 5500 2.200 100 (50)
4 7911				
	the blanks with suital Mole of glucose has		n, of oxygen	$(1 \times 4 = 4)$ and
v) 11		ydrogen.	, or ony gen	und

-	or circle on the correct option.			$(1\times10=10)$
(xxiii)	NH₂ is the functional group of(c) Esters(b) A mines	(a) Allayl balidas	(d) A loci	h o.1c
(xxiv)	Which one of the following is a Lewis base?	(c) Alkylhalides	(d) Alco	HOIS
()	(c) BF_3 (b) H^+	(c) NH_3	(d) NaCl	
(xxv)	Which one of the following is insoluble in water			
	(c) Octane (b) KCl (c) Na ₂ So ₄	(d) NaC	1	
(xxvi)	Night blindness is because of deficiency of (c) Vitamin A (b) Vitamin E	(a) Witamin C		(4) V/4 D
(xxvii)		(c) Vitamin C	ıre	(d) Vitamin D
(AAVII)	For a reaction between PCl ₃ and Cl ₂ to form PC (c) Moldm ⁻³ (b) Mol ⁻¹ dm ⁻³	(c) $Mol^{-1} dm^3$	110	$(d) \operatorname{Mol} dm^3$
	Matte is a mixture of	. ,		
	(c) Fes and CuS (b) Cu ₂ O and FeO	(c) Cu ₂ S and FeS	(d) None	
(xxix)	Specific heat Capacity of water is	() 6 4 777 77		(D. 0. 4.7. 71.
(****)	(c) 4.2 Kjg k (b) 4.2 Jg k The end product of oxidation of acetylene is	(c) 2.4 KJg ⁻ k ⁻		(d) $2.4 \mathrm{Jg}^{\mathrm{T}}\mathrm{k}^{\mathrm{T}}$
(xxx)	(c) Oxalic acid (b) Glycol	(c) Gloxal		(d) None of these
(xxxi)	Which one of the following is a triglyceride?	(c) Glo Au		(a) None of these
` /	(c) Carbohydrates (b) Proteins	(c) Lipids		(d) Vitamins
(xxxii)	Azone is beneficial for us as it			
	(c) Absorb IR radiations (b) Absorb UV r	radiations (c)	Absorb	CFC _S (d) Absorb air
O No 3 Writ	Pollutants e the short answers of the following questions			$(3\times12=36)$
(xiii)	How slag is formed during smelting process?			$(3 \times 12 - 30)$
(1111)				
(xiv)	Write the names of components of a nucleotic	le.		
(xv)	Write a reaction of oxidation of alkenes with 1	potas sium permagn	ate.	
		,		
(xvi)	Why CO ₂ is responsible for warming of at mos	sphere?		
. ,				
(vvii)	If a reaction has large value of K_C , will it go to	o completion and w	uhw?	
(xvii)	if a feaction has large value of K_C , will it go to	o completion and w	viiy :	
(xviii)	What are the limitations of Bronsted – Lower	y Concept?		
(xix)	What is the Source of geraniol? What function	nal groups are pres	ent in thi	s group?
. ,				
()	How allowed are more and by Jahandari 1	nation of wish-1 47	olidas 9	
(xx)	How alkynes are prepared by dehydrohaloger	iation of vicinal dih	andes?	
(xxi)	What is the difference between reducing Sugar	ar and non reducing	Sugar?	

(xxii)	What is flue gas?					
xxiii)	How the detergents make the	e water unfit for aqua	tic life?			
(xxiv)	Why only NaHCO ₃ precipita	ites, when CO ₂ is pass	sed through	h the ammoni	cal brine	2
,						
	CADET COLL	EGE CHOA SAIDE Paper Biology		CHAKWAL		
(12)	Q No.2 (18)	Q No.3 (36)		Q No.4 (10	0)	Total Marks (50)
	the most correct option. Micro organism used for the	production of formi	e seidis		$(1 \times 12 =$	12)
	(d) Aspergillus	(b) Saccharo mysis	c acturs.	(c) Bacil	llus	(d) All of these
i) W	Ve eat onion, our tropic Leve	el is:		, ,		
	(d) Primary consumer (b) S	•		poser (d) l	None of the	nese
	ascuta sucks nutrients from			\ TT	/ 1\ A 11	C .1
	(d) Roots	(b) Osmosis	,	e) Haustoria	(d) All o	these
	Mechanism of organic evoluti (d) Lamark these	(b) Chales Darwin		e) Every		(d) None of
	uman blood variation is the (d) Incomplete dominance ((c) Co dom	inance	(d) All o	f these
i) M	lendal law of independent as	sortment is also call	ed.			
((d) Monohybrid eross Vatson and Crick proposed to) Test cross	(d) All o	
ii) W		(b) 1951 (c) 1953		(u) Mone	e of these
ii) W iii) B	(d) 1949 ag of skin covering testis is c		(a) Saratur	0	(d) None	ofthese
ii) W iii) B	` /	(b) Vas deferens ((c) Scrotun	n	(d) None	e of these
ii) W iii) B: (x) Ez	ag of skin covering testis is of (d) Cowpers	(b) Vas deferens (,	n) Maize	(d) None	e of these (d) None of these
ii) W (iii) B: (x) Ex () Si	ag of skin covering testis is c (d) Cowpers xample of epigeal germinatio (d) Bean ingle leaf of calex is also callo	(b) Vas deferens (on is, (b) Pea ed	(c)) Maize	, ,	(d) None of these
ii) W iii) B iii) B iii (x) Ez iii) Si	ag of skin covering testis is of (d) Cowpers xample of epigeal germination (d) Bean	(b) Vas deferens (on is, (b) Pea ed (b) Petal (,) Maize	, ,	

	Give short and brief ans wers:	d) Both a, & b, $6 \times 3 = 18$)
	What is meanth by axial skeleton?	
	Write the function of meninges.	
•	What is feedback mechanism?	
_		
-		
_		
).	How short sightedness is treated?	
l.	Draw structure of nephron?	
_		
2.	Define transpiration.	
	Discus Gametogenesis with diagram while differentiating between spermatogenesis.	is and
	(10)	
	QNo.4 What was the proposed model of DNA by Watson and Crick?	(1
	VI 10. I TI HAL WAS THE PROPOSED HOUSE OF DIVALVY WAS ON AND CHEK!	\ \ \