

Time Allowed: 4Hours Total Marks: 200

INSTRUCTIONS

- All questions are compulsory.
- No marks will be awarded in case of cutting / overwriting or use of lead pencil.
- All questions will be attempted on this Exam Booklet.
- No extra answer sheet / loose papers will be given.
- Failing to abide by the following instructions will result in disqualification of candidates:
 - o Roll number will only be written in the given space.
 - No identifications marks e.g. name, drawings, signatures etc will be marked on the Exam booklet.
 - Examination Center will not be written on the Exam Booklet.
- Use of calculator is allowed.
- Part-I English paper contains 1-6 questions on pages 1 through 6.
- Part-II Mathematics paper contains 7-12 questions on pages7 through14.
- Part-III Physics paper contains 13-18 questions on pages15 through 21.
- Part-IV Chemistry paper contains 19-24 questions on pages22 through 27.

MARKS OBTAINED

ENGLISH

QuestionNo.	1	2	3	4	5	6	Total
Marks Obtained							

MATHEMATICS

QuestionNo.	7	8	9	10	11	12	Total
Marks Obtained							

PHYSICS

QuestionNo.	13	14	15	16	17	18	Total
Marks Obtained							

CHEMISTRY

QuestionNo.	19	20	21	22	23	24	Total
Marks Obtained							

Subject	English	Mathematics	Physics	Chemistry	Total
Marks Obtained					

Asst Head Examiner	Head Examiner	Result Compile

PART-I ENGLISH (50 MARKS)

SECTION - A (Marks 15)

Q.1 Insert the correct option i.e. A / B / C / D in the empty box opposite each part. Each part carries one mark.

(i)	The festival,	lasted al	I day, ended with a band	quet.	
	A. That	B. Who	C.Which	D. What	
(ii)	Choose the correct sp	elling:			
	A. Persaunification		B. Personefication		
	C. Personification		D. Personificashion		
(iii)	The fly came in	the door. (S	Suitable Preposition)		
	A. About	B. Over	C. Through	D. Beneath	
(iv)	A long bumpy drive m	eans:			
	A. Leisure time		B. Easy time		
	C. Hard/ Challenging	time	D. Worried time		
(v)	Which is more serious	s connotation?			
	A. Problem	B. Issue	C. Trouble	D. Disaster	
(vi)	Will someone be here	soon to open the	e door?		
	A. Infinitive phrase		B. Gerund phrase		
	C. Prepositional phras	se	D. Adverb phrase		
(vii)	The police needed de	tails	could help identify th	ne robber.	
	A. Who	B. Whatever	C. That	D. What	
(viii)	He devised the most	equitable plan for	setting the Black Stone.		
	A. Privileged	B. Reasonable	C. Favourite	D. Desireable	
(ix)	A letter	by Ahsan. (to v	write- Present continuo	ous)	
	A. Be written		B. Will being written		
	C. Is being written		D. Is written		
(x)	You can choose one	oerson,	you like, to share the	cruise with you.	
	A. Whomever	B. That	C. Which	D. Whom	
(xi)	I didn't like the movie.	I thought it was to			
(xii)	A. Depressed C. Depress I am really	with one of my co-	B. Depressing D. Depresses -workers.		
()	A. Annoys C. Annoyed	-	B. Annoying D. Annoy		

	(xiii)	He asked me very hard question	on. (Suitable Article)								
	` '	A. The	B. A								
		C. An	D. That								
	(xiv)	Did you meet anybody there? The und	lerlined word is:								
		A. Relative Pronoun	B. Indefinite Pronoun								
		C. Personal Pronoun	D. Interrogative Pronoun								
	(xv)	He pronounced all the letters very clea	rly. The underlined word is an adverb of:								
		A. Frequency	B. Degree								
		C. Time	D. Manner								
		SECTION -	<u>B (Marks 15)</u>								
Q.2	Answer the following questions parts in about 30 to 40 words each. Each part carries equal										
marks.	$(5 \times 2 = 10)$										
	(i)	Why did the Jews and Non-Muslims tru	st Holy Prophet?								
	(ii)	What advice did Rasool Allah give to H	azrat Ali?								
	(iii)	Is Chinese belief about people having of	character traits of animals a fact or opinion?								

(iv)	What type of gifts Chinese elders give to children and adults on New Year day?
(v)	What should you do if you are allergic to adhesive material used in bandages?
	·
Q.3: Read t	he following stanza carefully and answer the questions given at the end:(5)
	But all of that is not its core,
	Its center is in truth,
	Eternal stillness,
	Bright blue skies
	And all you hear,
	Are gentle whispers,
	Far away,
Questions :	And unimportant
(1)	
(i)	Explain "its center is in truth".

	(ii)	What is "not its core" and whose?		
	(iii)	What is meant by eternal stillness?		
		SECTION - C (Marks20)		
Q.4	Transl	ate the given sentences into English.	(10)	
		g	صرف چند لڑکے امتحان دیں گے	(i)
			• •	
	-		آج صبح کس ملازم کو دیانند اری کاانعام دیا گیاتھا	—— (ii)
	_			
			طلباکے پریے دیکھے جاچکے ہیں	(iii)
	-			
			ا بھی تک بارش نہیں ہو ئی تھی	(iv)
	-			
			دروازے پر رنگ نہ کیا گیا	(v)

Q.5	Transl	late the	e given sentences into Urdu.	(10)					
	(i)	Have	Have you finished your work?						
	(ii)	The b							
	(iii)	Peopl	ble have been coming to the parks since morning.	le have been coming to the parks since morning.					
	(iv)	The a	army didn't capture the fort.						
	(v)	e servants will not work hard.							
Q.6			y in the given space based on the prompt / sketch / picture and giv space only to write your story. (10)	e it an appropriate					
	ole Title:	_		(2)					
Plot		2							
Diction		1							
Lang		2		77-1					
Char	acters	2	Salman is an Arab trader. He is honest and very hardworking. One	day be was going					
on a tra	ade jour	ney wit	th his young son. On the way,	day no was going					

Lesson /Moral:	(1)

PART-II

MATHEMATICS (50 MARKS)

SECTION A (Marks 15)

Q. 7Insert the correct option i.e. A / B / C / D in the empty box provided opposite each part.

Each part carries one mark.

(i)	An equation of the	e form $2x^4 - 3x^3 +$	$7x^2 - 3x + 2 = 0$ is a/an	equation.	
	A. Reciprocal	B. Exponential	C. Radical D. N.	one of the given	
(ii)	Cube root of -1 ar	e			
	A. $-1, w, w^2$	B. $-1, -w, w^2$	C. $-1, -w, -w^2$ D. 1	$1,-w,-w^2$	
(iii)	Variance of 5,5,5	,5,5 <i>is</i>			
	A. 5	B. 6	C. 5,5D. Zero		
(iv)	If 2w and 2w ² are	root of an equatio	on then equation is		
	A. $x^2 + 2x + 4B$.	$x^2 - 2x + 4$	C. $x^2 + 2x - 4$ D. <i>None</i> of	of given	
(v)	A relation betwee	en two quantities o	f same kind is called		
	A. Ratio	B. Proportion	C. Variation	D. Inverse Variation	
(vi)	A 3 rd proportion of	f 12 and 4 is			
	A. 4/3	B4/3	C3/4	D. 3/4	
(vii)	A function f: $A \rightarrow A$	Bis called an onto f	unction iff		
	A. Range of $f <$	BB. Range of f	\neq B C. Range of $f = B$ D.	none of given	
(viii)	Area of circular	Sector is $A = $	·		
	A. 2π <i>r</i>	B. 1/2π <i>rθ</i>	C. 2π r θ	$D.rac{1}{2}r^2 heta$	
(ix)	One and only one	· can pass	through three non collinear p	oints	
	A. Line	B.Chord	C. Circle	D.Square	
(x)	If two chords of a	circle are congruer	nt then they will befrom	n the center.	
	A. Not greater	B. Greater	C. Not equidistance	D. Equidistance	
(xi)	$Cosec^2 θ-Cot^2 θ =$				
	A. 1	B. 0	C1	D. Tan²θ	
(xii)	A line which is co	mmon to the circle	at one point is calledof a	circle	
	A. Sine	B. Tanget	C. Secant	D. Cosine	
(xiii)	A complete circle	is divided .			
	A. 90 degree	B. 180 degree	C. 360 degree	D. 270degree	

(xiv	/)	Pro	duct of cul	be root of ur	nity is:-			
		A.	-1	B. 1		C. 0	D. 2	
(xv)	Ме	an is affec	ted by:-				
		A.	Sum	B.	Origion	C. Ratio	D. None of thegive	en
					SECT	TON-B (Marks 15	1	
Q.8	Att	emp	t all parts	. All parts o	arry equal	marks.	(5	x3 = 15)
	(i)		If α, β are	the roots of	the eq lx²	+mx+n = 0 then fir	nd the value of $1/\alpha^2 + 1/\beta^2$	2
						······································		
	(ii)		Find the v	value of 'k' if	sum of the	roots of the eq x ²	x + (3k - 7)x + 5k = 0 is 3	/2 times the product

Prove that	$(\tan\theta + \cot\theta)(\cos\theta + \sin\theta)$	= sect + cosect	
Form quad	ratic equation whose roots are 3	and 4	

	SECTION-C(Marks 20) any triangle, the square on the side opposite to the acute angle is equal to the sum of the the sides containing that acute angle diminished by twice the rectangle contained by one of
(v)	Find mean proportional of 20, 45



Q.10	One and only one circle can pass through three non collinear points.

Q.11 radii.	If two circles touch externally then the distance between their centers is equal to sum of	thei

Q.12	Two chords o	of a circle which are equid	listant from the	e center, are cong	ruent	

PART-III

PHYSICS (50 MARKS)

SECTION - A (Marks 15)

Q.13 Insert the correct option A, B, C, D in the empty box opposite to each part. Each part carries one mark.

(i)	If the mass of a body at	tached with spring is inc	reased four times t	hen time period will be:	
	A. T/2	B. T/√2	C. √2 T	D. 2T	
(ii)	Time period of secondp	endulum is:			
	A. 1 s	B.2 s C.0.5 s	; <u> </u>	D. 0.1 s	
(iii)	Sound level of rustling of	of leaves is:			
	A. 1 dB	B. 10 dB	C. 20 dB	D. 30 dB	
(iv)	Which of the following of	characteristics of a wave	is independent of	the others?	
	A. Speed	B. Frequency	C. Amplitude	D. Wavelength	
(v)	The amount of energy s	supplied by the battery in	pushing one could	omb of charge from its	
	positive terminal to its n	egative terminal through	the battery is know	wn as:	
	A. e.m.f B. Pote	ential difference C. Res	istance	D. Power	
(vi)	According to ohm's law	the graph between Van	id <i>l</i> is a:		
	A. Zig-zag line	B. Curved line	C. Straight line	D. Circular line	
(vii)	In series combination, t	he voltage across each i	esistance is:		
	A. Same	B. Different	C. Infinite	D. Zero	
(viii)	When a suitable resista	ance is connected in seri	es with the galvan	ometer, it is converted	
	into:				
	A. Ammeter	B. Voltmeter	C. Avometer	D. Electroscope	
(ix)	If a current 'I' ampere flo	ows through a resistance	e 'R' in time 't' seco	nds then the energy	
	supplied will be:				
	A. W= IRt	B. W=I ² Rt	C. $W = IR^2t$	D. $W = IRt^2$	
(x)	The resistance of an ele	ectric bulb is 5000 Ω . Wh	nen a potential of 2	250V is applied across	its
	ends the power consum	ned by it is:			
	A. 25 W B. 100	W C. 12.5	5 W	D. 50 W	
(xi)	When a current carrying	g conductor is placed pa	rallel to the magne	tic field, then the force	
	acting on the conductor	or is:			
	A. Minimum	B. Maximum	C. Zero	D. Infinite	
(xii)	1 yF =				
	A. 10 ³ F	B. 10 ⁻³ F	C. 10 ⁶ F	D. 10 ⁻⁶ F	
(xiii)	Process of generating in	nduced emf in a coil by o	changing current in	neighboring coil is	
	called:				
	A. Lenz Law	B. Faradays Law	C. Mutual induction	on D.Self induction	
(xiv)	The shape of magnetic	lines of force in the case	of a straight curre	nt carrying conductor	
	are:				
	A. Circular	B. Triangular	C. Rectangular	D. Elliptical	
(xv)	Which of the following v	vorks on principle of elec	tromagnetic induc	tion?	
	A. Generator	B. Motor	C. Voltaic cell	D. Galvanic cell	

SECTION-B (Marks 15)

Q.14	Answ	er all the parts.All parts carry equal marks.	(5x3 = 15)
	(i)	Draw Symbol and truth table of NAND gate.	
		<u>,</u>	
	(ii)	Write down laws of refraction of light.	
	(iii)	What is specific resistance? Write down its formula and unit.	
		·	

Page 16 of 27

	(iv)	Define power of lens and write down its unit.
	(v)	Convert 1000 J into watt-hours.
		SECTION-C (Marks 20)
Q15.	What i	is armature? How can we increase the force acting on armature in a magnetic field?

Page 17 of 27

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Q.16	What is Cathode Ray Oscilloscope? Write down its main components and draw its diagram.

Q.18	State and explain Ohm's Law.	

PART-IV

CHEMISTRY (50 MARKS)

SECTION-A(Marks15)

Q.19 Insert the correct option i.e. A / B / C / D in the empty box provided opposite each part. Each part carries one mark.

(i)Cho	ose Lev	wis acid					
	A. CN	N -	B. NH ₃	C. H ₂	0	D. H ⁺	
(ii)	For a reaction between PCl ₃ and Cl ₂ to form PCl ₅ ,the units of Kc are:						
	A. N	/lol dm ⁻³		B. Me	ol ⁻¹ dm ⁻³		
	C. N	/lol ⁻¹ dm ³		D. M	ol dm³		
(iii)	The	stem "octa" stand	s for how many ca	rbon atoms			
	A. 4		B. 6	C. 7		D. 8	
(iv)	Pitch	is produced by					
	A. C	Coal		B. Co	oal tar		
	C. Coal gas		D. Pe	etroleum			
(v)	Which reacts explosively with methane?						
	A. F	2		B. CI	2		
	C. E	3r ₂		D. I ₂			
(vi)	Whic	h is not present in	DNA				
	A. D	De oxy ribose suga	ar	B. Ri	bose sugar		
	C. F	Phosphate unit		D. Ni	trogen base		
(vii)	Tropo	osphere extends ι	ıp to				
	A.	50 Km		C. 12	2 Km		
	B.	18 Km		D. 8	0 Km		
(viii)	Whic	h is reddish browr	n color gas?				
	A.	NO_2		C.	NO		
	B.	SO_2		D.	O ₃		
(ix)	Whic	Which is used toremove permanent hardness of water?					
	A.	Slaked lime		C.	Washing soda		
	B.	Boiling water		D.	All of these		
(x)	The o	The conjugate acid of NH₃ is:					
	A.	NH ₄ +		C.	NH_2^-		
	B.	H2PO ₄ 1-		D.	H ₃ PO ₄		
(xi)	Heating calcium hydrogen carbonate produces						
	A.	CO ₂		C.	CaCO₃		
	B.	H ₂ O		D.	All of these		
(xii)	Dehydration of Alcohols can be carried out with:						
	A.	NaOH		C.	KOH		
	B.	H_2SO_4		D.	HCI		
(xiii)	Percentage of nitrogen in urea is						
,	A.	35		C.	21.2		
	В.	80		D.	46.6		
(xiv)	The naturally occurring metallic compounds are called as						
(,,,,	Α.	Ore	orao	C.	Mineral		
	В.	Gangue		D.			
(xv)	B. Gangue D. Rock Which molecule contains carbon carbon double bond						
(^V)							
	Α.	Ethene			Ethyne		
	B.	Ethane		D.	Ethyl alcohol		

SECTION-B (Marks 15)

Q.20	Attem	Attempt All parts. All parts carry equal marks.				
	(i)	State the law of mass action.				
	(ii)	Why BF₃ acts as Lewis acid?				
	(iii)	Differentiate between saturated and un-saturated hydrocarbons.				
	(v)	What are lipids? Give two examples.				

	(v)	What is pollutant? Give two examples of water pollutants.				
		SECTION - C (Marks 20)				
	Write down five methods of preparation of salts.					
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21 	Write o	down five methods of preparation of salts.				
Q.21	Write c	down five methods of preparation of salts.				
Q.21 	Write o	down five methods of preparation of salts.				
Q.21 	Write o	down five methods of preparation of salts.				
Q.21 	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				
Q.21	Write o	down five methods of preparation of salts.				

Q.22	2 What are carbohydrates? Write three uses.	

Q.23	Write down the classification of organic compounds in detail.

Q.24 Outline basic reactions of Solvay	
process	
process	
	