NOTE:Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question.

12

Q1.				3 4 4 5
1.	Potable water on ea	rth is only of	total water.	
	(A) 0.6%	(B) 0.2%	(C) 4.0%	(D) 2.1%
2.	The boiling range of	f petroleum ether is:	7 (86) · · · · · · · · · · · · · · · · · · ·	
	(A) 170-250°C	(B) 30-80°C	(C) 20-170°C	(D) 80-170°C
3.	Kc is always equal to	o:		
	(A) K_f/K_r	(B) K_r/K_f	(C) R_f/R_r	(D) R _f /R _f
4.	The given reaction g	goes to completion beca	use of $CaCO_3 \xrightarrow{\Delta} CaC$	0+CO ₂ .
	(A) high temperature		(B) CaO is more stab	le than CaCO ₃
8	(C) CO ₂ escapes con	tinuously	(D) CaO is not dissoc	ciated
5.	KCl is an example o	f:		
	(A) double salt	(B) normal salt	(C) mixed salt	(D) complex salt
6.	pH of neutral solution	on is:		
	(A) 6	(B) 7	(C) 8	(D) 14
7.	Amount of carbon in	n antheracite coal is:		a company of the second
	(A) 60%	(B) 70%	(C) 80%	(D) 90%
8.	Which one of the fol	llowing is an unsaturate	ed hydrocarbons?	9
	(A) CH ₄	(B) C_2H_6	(C) C ₂ H ₄	(D) C ₃ H ₈
9.	Water soluble vitam	in is:	*	
	(A) vitamin B	(B) vitamin A	(C) vitamin D	(D) vitamin E
10.	The formula of steam	ric acid is:		10
	(A) C ₁₇ H ₃₅ COOH	(B) C ₁₇ H ₃₃ COOH	(C) C ₁₇ H ₃₇ COOH	(D) C ₁₅ H ₃₁ COOH
11.	Which gas protects	the earth's surface fron	ultraviolet radiations?	
	(A) CO ₂	(B) CO	(C) N ₂	(D) O ₃
12.	Which disease cause	s severe diarrhea and c	an be fatal.	
	(A) jaundice	(B) cholera	(C) typhoid	(D) hepatitis

Sargodha Board 2018 (First Group)

Roll	No.(in Figures):		(in Words):	
		n Marks: 48	SUBJECTIVE	TYPE	Time Allowed :1.45 Hours
			(PART -	I)	
Q2.	Write	e short answers to a	ny FIVE (5) questions.	Ti.	5×2=10
(i)			n and give an example.		
(ii)		시기를 통해할 때 시험을 하는 아이를 내려왔다고 있다.	veen active mass and rate of	reaction?	
2.0		A. A.	direction of a reversible reac		
			actants and products.		
(v)		ne pH. What is the p			
		e down two uses of			
		e the chemical form	9476 B. C.		
1000			y concept of acids and bases		
Q3.			ny FIVE (5) questions.	, Post 12	5×2=10
(i)		ne aromatic compou			n Done w
(ii)		two uses of coke.	50 18		
	Hov	are alkyl radicals fo	ormed? Give example.		
		it are addition reaction		g 9	6.0
(v)		e down the formula			
100		ne carbohydrates.	20,000 (10,00) (10,000 (10,00) (10,000 (10,00) (10,000 (10,00) (10,000 (10,00) (10,00) (10,000 (10,00) (10,00) (10,000 (10,00)		N N N
		the general formula	of amino acids.		
		te down the sources			IC 1 1 5 sec. Mr.
Q4.			ny FIVE (5) questions.	O _A	5×2=10
(i)	Wri	te two effects of SO	price and the second	15	10 25 20 1 0
(ii)	Defi	ine pollutants. Give t	wo examples of air pollutant	is.	A POSE OF MARKET
(iii)	Def	ine ozone and ozone	hole.	Q	No. No. 8
(iv)	Wri	te the cause and effe	ct of fluorosis.		A Color for Partition in
(v)	Hov	v temporary hardness	s is removed by boiling?		107
(vi)	Wri	te two uses of petrol	eum ether.		
(vii)	Hov.	v granulation of liqui	id urea is done?		
(viii)Def	ine minerals and gan	gue.		
		_G	(PART -	II)	
Note	a. Atte	empt any TWO quest	ions.		2×9=18
				ium constant evi	pression for a general reaction.
uo.	(a)	State the law of ma	ss action and derive equilibri	ium constant ex	5
	(b)	What is salt? Expla	in with examples the followin	g salts. (i) Dou	ble salts (ii) Complex salts 4
Q6.		Write five sources		147	5
401			saccharides and polysaccha	ides	4
	(b)	100			10 20 20 20 20 20 20 20 20 20 20 20 20 20
Q7.	(a)		cedure for manufacturing of		200 m T
	(b)	Write two methods	for removal of temporary ha	rdness of water.	4

NOTE:Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more circles will result in zero mark in that question.

uı.		1.5		.12
1.	Temporary hardness	is because of:	jan je je švi s	was the second
-2	(A) MgSO ₄	(B) MgCO ₃	(C) CaCO ₃	(D) Ca(HCO ₃) ₂
2.	Crude oil is heated in	the furnace upto:	- X	
	(A) 350°C	(B) 300°C	(C) 450°C	(D) 400°C
3.	The colour of I2 gas is	•		
14	(A) blue	(B) green	(C) purple	(D) red
4.	If $Q_c < K_c$ what will b	e the direction of react	ion?	
	(A) forward	(B) reverse	(C) equilibrium state	(D) speed up gradually
5,	Which acid is found in	n apple?		grand have the state of
	(A) uric acid	(B) formic acid	(C) citric acid	(D) malic acid
6.	The conjugate base of	sulphuric acid is:	5.	
	(A) SO ₃ ² -	(B) SO ²	(C) HSO ₄	(D) HSO ₃
7.	In laboratory urea wa	s prepared by:		
	(A) Wholer	(B) Rutherford	(C) Berzellius	(D) Dalton
8.	Oxidation of alkenes	produces:	0 Exe-1.7	erenoger T. D
	(A) glyoxal	(B) glycol	(C) oxalic acid	(D) formic acid
9.	Which one of the follo	owing is tastless?	0/,	
	(A) sucrose	(B) fructose	(C) starch	(D) glucose
10.	Night blindness is bec	ause of deficiency of:	endiga et diservir	sandinesi in
	(A) vitamin A	(B) vitamin C	(C) vitamin D	(D) vitamin E
11.	Just above the earth's	surface is:	Sold Mark Spire	A AMERICAN PROPERTY.
	(A) mesosphere	(B) stratosphere	(C) thermosphere	(D) troposphere
12.	Specific heat capacity	of water is:		- 186 - 186 - 18 ·
	(A) 4.2 KJg-1K-1	(B) 4.2 Jg ⁻¹ K ⁻¹	(C) 2.4 KJg ⁻¹ K ⁻¹	(D) 2.4 Jg ⁻¹ K ⁻¹

Rol	No.(in Figures): (in Words):	
		wed :1.45 Hours
	(PART - I)	
Q2.	Write short answers to any FIVE (5) questions.	5×2=10
(i)	Why reversible reactions never complete?	Mar 85
(ii)	What do you mean by equilibrium constant?	
(iii)	What represent the very small value of Kc for a reaction?	70 10 10
(iv)	What is static equilibrium? Explain with an example.	
(v)	Write two limitations of Arrhenious concept.	14 (51)
(vi)	Write two physical properties of acids.	1 2 5 1
(vii)	Write two uses of pH.	
(viii)What are mixed salts?	
Q3.	Write short answers to any FIVE (5) questions.	5×2=10
(i)	Define isomerism.	** * 5 E
(ii)	How carban completes its octet?	
(iii)	What is destructive distillation?	
(iv)	Write down two uses of methane.	
(v)	Write two physical properties of alkynes.	n se w
(vi)	Write down the general formula of amino acid.	
(vii)	What are advantages of fats soluble vitamins?	
(viii)How is gelatin obtained?	- H _a
Q4.	Write short answers to any FIVE (5) questions.	5×2=10
(i)	Name the different spheres of atmosphere.	9.
(ii)	Write short answers to any FIVE (5) questions. Name the different spheres of atmosphere. What is green house effect?	
(iii)	Define acid rain.	
(iv)	What do you mean by fluorosis?	
(v)	Why non-polar compounds are insoluble in water?	March 10 12
(vi)	What are minerals?	
(vii)	Write the two uses of kerosene oil.	G 68
(viii)What is fractional distillation?	
	(PART - II)	
Note	e: Attempt any TWO questions.	2×9=18
Q 5.	(a) Describe five macroscopic characteristics of dynamic equilibrium.	5
35%	(b) Describe two methods for measuring pH of solution.	4
ne		
Q6.	(a) Write five physical properties of alkenes.	5
	(b) Define amino acids, amino acids are building blocks of proteins, explain.	4
Q7.	(a) Write a detailed note on ammonia Solvay's process.	. 5

(b) Give four effects of water pollution.