INTERSECONDARY SCHOOLS EXAMINATION SERIES ISESE FORM TWO OPENING TEST CHEMISTRY

TIME 2:30 HRS

Instructions

- 1. This paper consist of section A, Band C with a total of ten (10) questions
- 2. Answer all questions in the space provided
- 3. Section A and C carry fifteen (15) Marks each and section B carries seventy (70) Marks
- **4.** All communication devices and any unauthorized materials are **NOT** allowed in the examination room
- 5. All answers must be in blue or black ink **EXCEPT** diagrams which must be in pencil

FOR EXAMINERS USEONLY					
QUESTION NUMBER	SCORE	EXAMINER'S INITIALS			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
TOTAL					
CHECKER'SINITIALS					

SECTION A (15 MARKS)

Answer ALL questions

1.	For each	ch of th	e items (i)	-(x) choose	the correct an	swer from an	no	ng given alternatives
	and wr	ite it on	the space	e provided				
i. Identify the skill not acquired during chemistry study					stry study		•••••	
	A.	Careful and thorough observations						
	B.	Accura	ate recordi	ing of what ha	as been observ	red		
C. Drawing conclusions from observations								
	D.	Thorou	ugh observ	vations and m	ap reading ski	.11		
	ii.	Access	s to safety	equipment sh	ould never be	blocked by a	an	y object because
	A.	It's a j	ust simple	e law				
	B.	There	must be sp	paces for peop	ole to move ar	ound in the la	abo	oratory
	C.	The eq	quipment i	s used in ever	y day			
	D.	It is in	nportant to	reach safety	equipment qu	ickly in case	of	an accident
	iii. Tl	ne follo	wing appa	aratus is used	to keep test tu	bes in the lab	or	ratory
		A.	Test tube	e rack		(C.	Tongs
		B.	Beaker]	D.	Test tube holder
	iv. Fa	actors in	n an exper	iment that car	n be manipulat	ted to get des	ire	ed results are called
		A.	Controlle	ed variables			C.	Dependent variables
		B.	Manipula	ated variables]	D.	Independent variables
	v. W	hich of	the follow	wing is an exa	mple of a che	mical change	:	
		A.	Melting l	butter			C.	Mixing milk and
		B.	Breaking	glass				water
]	D.	Burning leaves
	vi. W	hen a s	mall amou	unt of commo	n salt is dissol	lved in water,	, tł	ne mixture so formed is
		A.	Homoge	neous			C.	Heterogenous
		B.	Immiscib	ole]	D.	Suspension
	vii. W	hich te	rm descrit	oes a rapid che	emical reaction	n that release	s e	energy in form of light
		and he	at?					
		A.	Ignition			(C.	Combustion
		B.	Reactivit	ty]	D.	Heating
	viii. A	re those	e people w	ho study cher	nistry practica	ally in the pas	st_	
		A.	Chemists	S		(C.	Al-chemistry
		B.	Alchemi	st D.Scientist				
	ix. Is	the sys	tematic st	udy of nature:	-			
		A.	Science]	D.	Contamination
		B.	Technolo	ogy				

C. Chemistry

- x. Syrups are examples of
 - A. Solution
 - B. Suspensions

- C. Homogeneous mixtures
- D. Filtrate

i.	ii.	iii.	iv.	v.	vi.	vii.	viii.	ix.	х.

2. Match the item in **list A** with the corresponding responses in **list B** by writing the letter of the correct response besides the item number

LIST A	LIST B
A B C	 i) Round bottomed flask ii) Ice cubes iii) Crystals of iodine iv) Wire gauze v) Tripod stand vi) Mixture of sand and iodine vii) Heat viii) Sublimation
D Heat E	

LIST A	A	В	С	D	Е
LIST B					

SECTION B (70 MARKS)

- 3. (a) Is air a mixture or a compound? Argue this statement by using four points,
 - (b) Solvent extraction is the method of separating one substance from one more substance by using a solvent, but the solvent must fulfill four conditions. What are they?

i	
ii	
iii.	
• •	

4. (a) Draw a well labeled diagram to show a method responsible for separation a mixture of ethanol and water.

. a) What is your answer wh nd Tungsten	hen someone ask you to write the Latin name and symbol of Mercury, Tin
).).	with their corresponding chemical symbols which starts with letter C
nportance because it confus	me, you hear two students arguing that chemical symbols has no e scientists. How will you correct their argument by using four points?
TERM	MEANING
i) Ductile	
1 17 17 UCUIC	
<u> </u>	
i) Sonorous	
<u> </u>	

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8. (a) Cars and corrugated iron sheet in coastal towns like Dar- es- salaam, Tanga and Zanzibar are found to rust more quickly than in other cities in Tanzania like Songea, Mwanza or Arusha. Why is this?
(b) A saturated solution is the one in which the solvent can dissolve no more solute at a given temperature and pressure also the concept of saturation can be applied when i) ::)
ii)

- 9. How can the following mixture be separated
- (i) Sugar solution
- (ii Mixture of rice and sand
- (iii) Mud from muddy water
- (iv) Chlorophyll from green leaves
- (v) Water from mixture of water and alcohol
- (vi) Water from mixture of water and paraffin
- (vii) Pure water from impure water
- (viii) Iodine from mixture of iodine and sodium chloride salt
- (ix) Water and salt
- (x) Ammonium chloride and sodium chloride salt

SECTION C (15 Marks)

Answer question **number 10** in this section

- 10. (a) At your home the fire break out suddenly and you are chosen to put off that fire by using fire extinguisher. Explain, how can you use a fire extinguisher and what precautions can you take so as to avoid occurrence of other accident.
- (b) Why is not advised to use water for extinguish class B and C fires?

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U.B.N COOPERATION O-LEVEL EXAMINATION SERIES 2025 TIME TABLE FOR ALL SUBJECTS FORM TWO AND FORM FOUR JANUARY SERIES

ALL SUBJECTS	DATE	TIME
SERIES — 01	20 th January 2025	03:00 – 6:00 pm
SERIES - 02	27 th January 2025	03:00 - 6:00 pm

CONTENTS COVERED

1. SERIES FORM TWO

(ALL TOPICS IN FORM ONE AND ONLY ONE TOPIC IN FORM TWO)

2. FORM FOUR

(ALL TOPICS IN FORM ONE, FORM TWO, FORM THREE AND ONLY ONE TOPIC IN FORM FOUR)

ADA: FORM TWO 15,000 MUHULA MZIMA

: FORM FOUR 15,000 MUHULA MZIMA

OFA: UKIFANYA MALIPO YA SERIES KABLA YA TAREHE 13 JANUARY MALIPO

NI TSH 10,000 KWA KILA KIDATO

NB: ***MWISHO WA MALIPO NI TAREHE 20/01/2025

*** ADA ZA MALIPO YA MUHULA HUPANDA KILA DEADLINE INAPOVUKA

HIVYO LIPIA MAPEMA KUEPUKA GHARAMA KUBWA BAADAE

MALIPO: 5595220 LIPA NAMBA VODA JINA U.B.N ACADEMIC CENTRE

FOR MORE INFO

CALL US: 0624 254 757

U.B.N COOPERATION O-LEVEL MONTHLY TEST 2025 FORM TWO AND FORM FOUR

OFA OFA

U.B.N COOPERATION TUNATOA OFA MAALUM YA KUJIUNGA NA GROUP LETU LA "U.B.N COOPERATION" KWA WAKUU WA SHULE NA WATAALUMA KWA TSH 100,000/= KWA KIDATO KIMOJA AMBAPO UTAPATA MITIHANI YA KILA MWEZI (MONTHLY TEST NA MARKING SCHEMES ZAKE) KWA MASOMO YOTE NDANI YA MIEZI SITA (MWEZI JANUARI – JUNE). OFA HII NI KWA KIDATO CHA PILI NA CHA NNE TUU. MWISHO WA KUJIUNGA NA OFA HII NI TAREHE 15/01/2025

KWA MAWASILIANO TUCHEKI KWENYE NAMBA 0624 254 757 WHATSAPP TU