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otal Time	11	(New Course)				
		1 A B 10	Max. Marks: 85			
instra	uctions.	i.e. A,B and C. attempt each sec	tion according to the given			
		SECTION A				
ime 20 Min		**	Marks: 18			
ote: Atter	npt all questions of Section-	A and return it to the superin	ntendent after 20 minutes			
verwitting	deracing/cutting etc is prohibite	d in Section A, an no credit will	be given to such answer.			
i.	t the correct options in the empt. The dimensional units of acceptance.	y box opposite to each part.				
	A. $[L^1 T^{-2}]$ B. $[L^2]$	Γ^2] C. [L ¹ T ⁻¹]	D Harl			
ii.	A vector whose magnitude is	one is called	D. [L 1]			
1662	A. Null vector B. Uni	t vector C. Position vector	or D. Positive vector			
iii.	The range of projectile is sam	e for the two angles which are m	utually			
iv.	A. Orthogonal B. Sur	plementary C. Complementa	ry D. Sumis 450			
IV.	The motion of a body in a circ	ole is called				
	D. Angular motion	ibratory motion C. Elliptical mo	otion.			
V.	The angular speed for daily re	station of earth is radian/hr is				
		C. 4⊼ D. [⊼] / ₆				
vi.		down with an acceleration of 9.	0/22			
	A. Double B. Zero	C. Half D. Negative	om/sec will be			
vii.	The work done in moving a b	ody between two points in a con-	servative field is			
	independent of	EFTANTILLE				
7,111	A. Force B. Direction	C. Path followed D. Energy				
viii.	Human blood pressure is mea	sured in				
ix.	The angular frequency and fre	cal C. CmHg D. mmHg				
	A w=2 of D c=0	Aw C. $F = \frac{1}{2 \text{Aw}}$ D. $f = \frac{1}{2}$,			
x.	The frequency of second pend	$\wedge W = C. F = 7_{2 \wedge W} = D. f = 7_{2 \wedge W}$	w			
	A. I hertz B. 0.5	hertz C. 2 hertz D.	0.25 hertz			
xi.	The points of maximum vibra	tion of a string in standing wave:	s are called			
	A. Crest B. Mod	cs C. Antinodes 1	D. Trough			
xii.	Work done by centripetal force	e is				
xiii.	A. Positive B. Neg	ative C. Maximum	D. Zero			
XIII.	A Polarization D Late	found in both sound and light.				
xiv.	The least distance of distinct v	rference C. Differection	D. Dispersion			
NO 300000	A. 15cm B. 20cm	C. 25cm	D. 22cm			
XV.	. The process in which heat neit	ther enters nor leaves the system	is called			
	A. Isothermal B. Isoc	horic C. Isobasic	D Adiabatic			
XVI.	Which one of the following pr	operties of light does not depend	up on the nature			
	of the medium.					
xvii.	Sound waves in air are	quency C. Wave length	D. Amplitude			
. 001000	A. Sonar waves B. EM	waves C Transverse	D. Longitudinal			
xviii.	The magnifying power of an a	stronomical telescope is	D. Longitudinal			
		fe C fofe	D fo/			

PHYSICS-I

(New Course)

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION B

Marks: 40

- П Attempt any TEN part each part carries FOUR marks.
 - i. Write the dimension of force, momentum, power and density
 - Can the magnitude of the resultant of two vectors be greater than the sum of magnitudes ii. of individual vectors.
 - iii. Gravitational force acting on a satellite is directed towards the centre of earth. Does this force exert torque on satellite.
 - What are concurrent force. ív.
 - V. What is weight of a body. What is the weight of a freely falling body.
 - When an arrow is shot from a bow, it has KE. From where does it gets the KE. vi
 - vii. A man rowing boat upstream is at rest with respect to the shore is he doing work.
 - viii. What is moment of inertia?

iii.

Escape velocity

- ix. Why a car has oblong shape design.
- Define vibration, time period, frequency and amplitude. X.
- What are the conditions for constructive and destructive interference of two sets of xi. waves?
- xii. Why does the pressure of air in automobile tire increases if the automobile is driven for a while?
- xiii. What is meant by co-herent and in co-herent sources of light.
- Differentiate between linear and angular magnification. xiv.
- What is meant by free oscillation and forced oscillation. XV.

SECTION C.

Marks: 27 Note: Attempt any three questions from this section. Each question carries equal marks. Define vector product of two vectors. Discuss any two characteristics of it. III. a. Find the value of "p" for which the following two vectors will become perpendicular each other $\overrightarrow{A} = 2\widehat{1} - 4\widehat{j} + \widehat{k}$ and $\overrightarrow{B} = 5I - pj + 2k$ IV. Define linear momentum. Show that rate of change of linear momentum is equal to force acting on the body. A 50kg man. Jumps into swimming pool from a diving board 10 meter above the water if b. it takes 0.5 second to reduce his velocity to zero. What average force does the man exerts on the water. 4 V. Define centripetal force. Derive mathematical expression for it. A car of mass 1000kg moves round a curve whose radius of curvature is 100 meter at a constant speed of 25m/sec. What is centripetal force acting on it. V1. Define C_p and C_v . Show what $C_p-C_v=R$ a. Calculate the efficiency of heat engine, whose two temperature reserviers is at 27°C, and Ь. high temperature reservies is at 327°C Write short notes on any two of the following. VII. Simple pendulum. ii. Simple microscope

iv.

Entropy

		300 310	220100001000000000	the Answer Book	81	
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Note: lime	: 20 Minu Attempt have no will be	THREE Sections of this pap	SECTION ection-A must be retu Overwriting / defacing	A rned to the superintending /cutting etc is prohib	Marks: ent after 20 minutes even i lited in Section-A and no o	20 f you
	i)	"One way of love" is comp A) Robert Browning B		C) W.B. Yents	D) Robert Frost	F
	ii)	My whole life long I learn		C) William Folia	ary and was a super	
	11)	THE COURSE OF THE PARTY OF THE) Love	C) Sing	D) Read	L
	iii)	Those who win heaven	are they		The same of the sa	-
) Sad	C) Blest	D) Lucky	L
	iv)	All June I bound the rose i A) Bundles B	n) Ropes	C) Clusters	D) Sheaves	
	v)	The distant huntsman whis A) Pipe B	stle winds his) Whistle	C) Horn	D) Piano	
	vi)	His name was				Г
				C) Pao-Cheng	D) Cheng-Yu	-
	vii)	His mother swooped past A) Echo B		ng a loud. C) Sound	D) Noise	
	viii)	Even in clear weather, in t A) Never B	his gorge the sun) Always	shone.	D) Usually	E
	ix)	Skvortsov flew into a rage A) Punishment B			D) Taunting	
	x)	The Burnell children soun A) Trouble B	ded as though they w) Misery	ALCOHOLD THE PARTY OF THE PARTY	D) Shock	
	xi)	But by being recruited I no A) Thoughts B			D) Feelings	
	xii)	The day of the panty arriv A) Name B			D) Beauty	
	xiii)	Too you really believe that A) Responds B		C) Feels	D) Thinks	E
	xiv)	Elia used to go to the Law A) Everyday B		C) All the same	D) Always	
	xv)	These animals are camel of A) Height B		C) Weight	D) Power	
	xvi)	Victoria is the daughter of A) Henry Slate B		C) Ben Jordan	D) Abel Marry-weather	
	xvii)	Damon and Pythias were v A) Business B		C) Enmity	D) Cowardice	
	xviii)	A) Mro. Slater B) Mr. Marry Weather	C) Mr. Henry	D) Mr. Ben Jordan	
	xix)	Pythias, do you believe fo A) King B	r a moment that the _) Police	C) Jailer would let	me leave this prison" D) Judge	
	xx)	The girl saw the man drag A) A blanket B		C) A statue	D) A corpse	
						4

XI 15-05 (A)08 M ENGLISH-I



Note: Time allowed for section B & C is 2 hours and 40 minutes.

SECTION-B

Marks: 50

- II. Attempt any TEN of the following questions. Each question carries equal marks. Q-II is compulsory.
 - i) What is significant about the bird's first flight?
 - ii) What qualities does skyortsox most prize in him?
 - iii) What work do Cheng Yu's parents do?
 - iv) What kind of machine Maxon wants to invent?
 - v) What were the items recovered from young man's various pockets?
 - vi) Why is Pythias arrested?
 - vii) Why is the girl in the "Heat Lightening" so frightened?
 - viii) What does Damon do to save the life of Pythias?
 - ix) How does Abel Marry Weather punish his selfish daughters?
 - x) Describe the theme of the poem "A Psalm of life".
 - xi) What are the physical losses which we have to face in old age?
 - xii) Explain with reference to the context the following stanza;
 Let us, then, be up and doing
 With a heart for any fate,
 Still achieving, still pursuing
 Learn to labour and to wait.

OR Paraphrase the following stanza.

Yet Ah, that spring should vanish with the Rose That youth's sweet-scented manuscript should close

The Nightingale that in the branches sang

Ah whence and whither flown again, who knows!

SECTION-C

Marks: 30

Note: Attempt any THREE questions of the following. All questions carry equal marks.

Ш.

a) Translate the following into Urdu.

- An orchestra could be heard playing in one of the restaurants.
- The music ended and the two sat for a few minutes in silence.
- iii) The whole school seemed so strange and solemn.
- iv) He realized to the full the extent of his degradation.
- v) She had no proper wardrobe and no jewels.
- b) Translate the following into English.

ا) ہمیں اپنے ملک سے محبت کرنی جا ہے۔
 ۲) وہ اتنا کمزور ہے کہ چل ٹیمیں سکتا۔
 ۳) انہوں نے سلمان سے خط کل صوایا۔
 ۵) اگر تم محنت کرو گے تو پاس ہوجاؤگے۔

- IV. a) Change the voice of the following.
 - i) By whom have the flowers been plucked?
 - ii) The teacher is calling the roll.
 - iii) Forget the past.
 - iy) English is spoken all over the world.
 - v) I read a newspaper daily.
 - b) Fill in the blanks with proper prepositions.
 - i) I was looking ____ my books. ii) Don't cry ____ spilt milk.
 - iii) She burst tears.
 - iv) Day day, we are growing old.
 - v) He lives Clifton, Karachi.
- V. a) Draw the character sketch of Damon.
 - b) Write the summary of "The Beggar".
- VI. Write an application to the Principal of your College for Fee Concession.

	-10-2		Serial No. of	the Answer Book	1	
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uperi	perintendent Seal & Signature		FIC. No. (For	FIC. No. (For office use only)		
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			BIOLOG	Y-I		
te: Tl		Hours THREE Sections of this pap vites	(NEW) oer i.e. A, B and C. Attem SECTION	pt each section according	Max: Marks to the given instruction. Mar	s; 85 ks: 18
	nave n will be	t all parts of Section – A. of attempted any question given to such answer, e the correct option and Branch of Biology which d. A.) Ecology	Overwriting / defacing write it in the empty l	ng /cutting etc is probib box provided opposite	oited in Section-A and r	o credi
	ii)	In prokaryotic organisms A) Cellulose	the cell wall is compo B) Chitin	ose of: C) Murein	D) Silica	
	iii)	Imperfect fungi is: A) Zygomycota	B) Ascomycota	C) Basidiomycota	D) Deuteromycota	
	iv)	Heterocyst is found in: A) Euglena	B) Spirogyra	C) NOSTOC	D) Yeast	
	v)	Cell wall is composed of A) Radiolaria	two overlapping plate B) Chlorella	s in: C) Dianoflagellates	D) Diatoms	
3	vi)	Enzymatic reaction is aff A) Change in temperate		C) Change in subtract	concentration D) All th	ese
	vii)	One of the following is c			D) Golgi body	
	viii)	Reserve food material in A) Starch	fungi is: B) Oils	C) Fats	D) Glycogen	
	ix)	Conidia is the most comma. A) Zygomy cota	non method of asexual B) Ascomy cota	reproduction in: C) Basidiomy cota	D) All of these	
3	x)	In which group of Bryop A) Hepaticeae	hytes the spore germin B) Authoccrotae	ate to form protonema:		
3	xi)	Archegonia is absent in: A) Bryophytes I	3) Salaginella	C) Gymnosperms	D) Angiosperms	
3	xii)	Octopus belongs to phyli	et .	C) Arthropoda	D) Echinodermata	
,	xiii)	Digested food is absorbe	NAME OF TAXABLE PARTY.	C) Large intestine	D) All of these	
,	xiv)	Spongy bones are presen	- Annie Alexander - Annie A	C) Birds	D) None of these	
	xv)	Weakening one then burs		CONTROL CONTROL CONTROL	D) Emphysema	
2	xvi)	Haemoglobin forms majo		C) Platelets	D) All of these	
2	xvii)	Absorption of foreign DN	150		(1-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
2	xviii)	Amine Acid is the buildi	AND TAXABLE PROPERTY OF THE PARTY OF THE PAR	C) Proteins	D) Lipids	

XI 20-05 (A)08 M

BIOLOGY-I (New)

Note: Time allowed for section B & C is 2 hours and 40 minutes.

SECTION-B

Marks: 40

11. Attempt any TEN of the following questions, Each question carries FOUR marks,

i) Functions of plastids.

ii) Factors affecting Enzymes action.

iii) Structure of Bacteriophage.

iv) Economic importance of family Rosaceae.

v) Important characters of class Fishes.

- vi) Names five animals of phylum Coelenterata.
- vii) Gram positive and gram negative bacte.
- viii) Importance of Insects.
- ix) Root Pressure.
- x) Difference between Monocots and Dicots.

xi) Hydroponics.

- xii) Role of pancreatic juice in the process of digestions
- xiii) Important characters of Fungi. 7

SECTION-C

Marks: 27

- Note: Attempt any THREE questions of the following. Each question carries equal marks. Draw labeled diagram where necessary.
- III. Define Alternation of Generation. Discuss Alternation of generation in Ulva.
- IV. Define Lipids. Discuss various groups of lipids and give functions of each group in living things.
- V. Define Transduction. How transduction takes place in Bacteria.
- V1. Discuss characters of Class Mammalia and give different groups of mammals.

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	ر) عقائد (D					اس دنیا کی بنیاد ہی اختلاف	-ii
	D) زرتشت		عيما ألى B) يهود			قبيله ط كمشهوريس عاتم طائي	-iii
	D) سیدسلیمان ندوی	1000	B) ڈاکٹرسیدعبداللہ			اردوكي صلاحيتيل كيمصنف كأنام	-iv
	(I) اصلاحی		B) جذباتی			منتى پريم چندنے كس فتم كى افساند تگ	-V
	D) خواجد مردرد		∠ (B	_ ج-A) فالب	يشام كانام	مصرعه "تدری بزارهت ب"	-vi
	D) گھرے گھرتک	c) عيدگاه	B) فريادخاموش			محن وحامد كاذكركس افسانديس بوا	-vii
						ليكن اضطراب كى كيامجال جوچير	-viii
	_ بوكل ميرى آلكي كلى	ن D) مور	لف كا بكرا C الجرال	ل الماقات B) جم ز	(A		
	(1) غلام عباس	C) منتی پریم چند	B) احديد يم قاكل	A) سجاد حيدريلدوم		عیدگاہ کس مصنف کی تحریر ہے۔	-ix
	D) ذکی انحن	122 (C	B) ذكى الطبح	الريوا (A -	ه_يناديا ې	حامد كوعسرت في ضرورت سيزياد	-x
				-4-15/PC	ب ميں شائل حد كم	کیاروی جماعت کے اردو کے کتا	-xi
	D) حفيظ جالتدهري	C) مايرالقادري	B) تلفر عليفان	A) امرینائی			Test 1
	(D) فرانس	C) برطانیه	B) امریک			فارلیند کس ملک کے سفیر تھے۔	
	D) ناول (D	C) افساند				''ایک کهانی بوی پرانی'' اردوادب	-xiii
	ا ایک کهانی برسی پرانی	D 5/10				الإيزائد الأي كاتريب	-xiv
					ين جتناحسين آ دۇ	حس بھی کیا چیز ہے نا در کا اتنا خوف	-xv
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	(D) سرجیت نگھ	2) (12 MC	B) لالدكرياتظر جي				
			1		کے نام خطیس کیا۔	علامها قبال نے اپنے والدشخ نورمحد	-xvii
	D) ثربت	c) گرمیانی	(B			er er	
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	J (D	C) مرکب	(B) افکاری			- A 11 (Date	
	(I) مرکبتام	C) مرکب توصیلی	B) مرکب اضافی	A) مرکب عظمی	-UI = 7	چىم روز گاراورىش پاكو	-XX
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لوث: حصرب اورحصرح كيلية وقت 2 كفظ اور 40 منث إلى-

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(m) 44000

II معدد ال من ع 10 كففر جابات كسي المام والله كفير برايري - II

i نعت عن شاعر نے صوفات کی جومفات میال کی جی افیل اللی عند عید؟

ii- بناداد اور الفت عدمقا بلي من خلوص اور سادكي كار الدين او بوتا ب-اقسان "كمركمرتك" كروشي مي وضاحت كري-

iii - مضمون "ديم زلف كا بكرا" بين مضمون لكارك عالى كويها على الم مشكلات كاسامنار با؟

iv - اللي شور ع كاثرات جائة كلية جابر بن حال في الحراث لي تحريات كية -

٧- باجره سرور كافعات الك كهانى بوى يانى " جا بالقافذكرت إلى؟

·vi كلم "مجابدين اسلام" كامركزى خيال تحقرا تحريركري -

· ان کیاآ ہے کے خیال بی مواحد شاعری سی آ موز ہو مکتی ہے؟ چند جملوں میں جواب دیجئے۔

· viii مطلع كاتعريف يجي اور مثالين ديج - غير بنائي كوس مطلع عام اد ي

ix- طروم ال ش كيافرق بوضاحت يجيد

× حرت موبانى ك فرال كوئى يرفخفر توكيس-

xi اقبال نے يورپ كى كتاب يس اويل عرى كاكيارازيز حافقا؟

xii واحد کے جع اور جع کے واحد مصی در الل مرفق ، علماء، ظرف م

xiii- دیے ہوئے الفاظ کوانے جملوں میں استعمال کریں۔ حمد کبریا، اوٹے ہوئے بینا، لخت جگر، ہدم، مجمف وتزار

ئىر:30 ئىر:30

श्च बनवर

II- ساق دہاق اور متن کے حوالے سے کی ایک جزو کی تشریح سے -

الف) اورادهر الریالاے کماس سے مانگ اسے مانگ ایٹے آپ کوٹرش سے پالٹاجار ہاہے مختفر سے کہ قات کے اور آدمی عربی اور آدمی اردو بول کردوڈ تاریوں کا فیصلہ کرکے ہاتھ ملاتے ہوئے چلتے ہے۔ اہل محفل میں کوئی بھی ایسانہ تھا جس نے ہمدردی کی آدمی ہاست بھی کی ہو۔جومبارک بادویتا ہےاور ہاستاہے کہ چلوایک چغداور پھنسا ، یہ بھی کیایا ذکر سے گا۔

ے اور اسے درہا ہے درہوا میں پیداور پست بین میں یور رسان ہے۔ عام لوگوں کی نگاہ بہت تک ہے ان میں سے بیشتر حیوانوں کی کی دعدگی ہر کرتے ہیں۔ای واسطے مولانا روم ایک جگہ کھیے ہی ں کہ چرائے لیکر تمام شہر میں پھراکہ کوئی انسان نظر آئے گرنظر شآیا اور موجودہ ذمانہ تو روحانیت کے اعتبار سے بالکل تہی دست ہے اسی واسطے اطلاص محبت ومروت و جگہتی کا نام و نشان ٹیس رہا۔آ دی آ دی کا خون پینے والا اور قوم قوم کی وشمن ہے۔ بید دورانتہائی تاریکی کا ہے لیکن تاریکی کا انجام سفید ہے۔

10

IV- شام اورتم كوالے كالك يروك ترك تي

الف) سارى ديناك فضائل بخوكوتر كي بين طيح تيرى محمت بير بي ہاور يوناني بحى ہے مشرق ومغرب كے تخيوں ہے قد ہم بر دور ب) ركوں ميں وہ ابو باتی نہيں ہے مناز وروز ہ و قربانی ورچ بير سياتی ہے قباق نہيں ہے

دودوستوں کے درمیان امتحانات کی بے قاعد کیوں پرمکالم تحریر کی۔

٧١- ناظم اعلى كوملازمت كيلي درخواست تلحيس-

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		I- (3)	اللامات(ا			
50:	كل تمبر			2 گئے 2	ن وقت:	5
	-0	الى مدايات كمطابق حل كر	ف، باورج، برجعے كودى			
بر: 10	2			ك خ		
واب ندد یا	رآپ نے ایک بھی سوال کا جو	بعد سپرنتنڈ نٹ کو واپس کریں اگ	اور حصدالف کو 15 منٹ کے	- كتام سوالات حل كريى -	حصدالف	وث:
		اوراس كيفرنيس ملين ك_				
	-05	ردیج ہوئے خالی خاند ش کھ				-]
				قرآن كس مينيديس نازل جوا	-i	
	D) خوال	C) دمضان	فر (B	73 (A		
				منافق کی کلتی نشانیاں ہیں؟		
	5 (D	4 (C	3 (B	2 (A		
		2	چز کوبنیادی حیثیت حاصل ہے	اسلام كيمعاشى نظام بين كس	-iii	
	D) مال وروات	C) (كوة		A) محنت		
		بارک کیاتقی؟	ت حفرت خدیجالکبرا گاکی عمر	حضوطات الله عناح كرت وف	-iv	
	JL40 (D			JV25 (A		
				زبورس يغير يرنازل مونى؟	-v	
	Or (D	- 3510 (C	(B) (x)	زبور کس پینجبر پرنازل ہوئی؟ A) توخ		
				سنن ابی ماجه کس تم کی کتاب۔		
	D) عديث	ى ال ق		A) تفير		
				ابولهب حضو والصيد كون تص		
	D پیمار او بھائی	Ę (C		A) elel		1 10
-		7.		شرک کے بعد سب سے بڑا گنا	-viii	
	D) والدين كى نافرمانى	t) (C		18. (A		
				ر ندی صدیث کی کوئی کتاب_	-ix	
	D) دونو نظیمی	C) دولوں		ا با ک		
		03// (0		الم الوداؤد كانام بتاييع؟		
	D محمد بن مزید	C) سليمان بن الشعت	B) گھر بن عیسیٰی (B	A) احمد بن على		

اسلامیات (لازی) -I

نوف: حصرب اورحصرج كيليخ وقت 1 معنشاور 45 منك إلى-

نبر: 25

حصه ليا

II- مندرجدذیل میں سے 05 کے مختر جوابات کھیں۔ تمام سوالات کے غیر برابر ہیں۔ ہرسوال چاریا یا تھے سطور پر شمتل ہو۔

i الله تعالى كى ربوبيت كا اقر اركر في والول كيليّ كون سے انعامات كا وعده كيا كيا ہے؟

ii مقرب فرشتول کے نام اوران کے کام لکھیں۔

iii- وي ڪيامراد ج؟

iv - منافقت کی وضاحت کریں۔

٧- استقلال كيامراد ٢٠

·vi صدیث کے معنی اوراس کی اقسام بیان کریں۔

vii - احترام قانون کی وضاحت کریں۔

نبر: 15

حصه ج

اون: کوئی سے دوسوالات کے جوابات کھیں۔ تمام سوالات کے نمبر برابر ہیں۔

III- ترجمهاورتشرت كري

الف) والاتكست كل نفس الاعليما

ب) انما بعثت لا لهم حسن الاخلاق

IV - عقيده آخرت كيا إورمعاشرتى زعركى بريكس طرح الزانداز موتا ب؟

٧- اعجاز القرآن يرايك جامع نوث تعيس-

			S. No.	0.1
			Roll No.	4
1.0.01			Fic. No.	
cal & Si	gnature of the Superintendent			For office use onl
		IEMISTR		
otal Tim	e: 3 hours	New Cours	07	Total Marks: 8
	ere are three parts A, B and C. Atter	not each par	t according to the giv	
		SECTION		en mad dedona.
	minutes			Marks: 13
te: At	tempt all parts of section A and mu-	st be return	to the superintendent	after 20 minutes even
yo	u have not attempted any question. (Overwriting	cutting/defacing etc.	is prohibited in section
an	I no credit will be awarded. Choose	the correct	option and write it in	the empty box provide
op	posite to each part.			
1.	Which one of the following cor	itain the larg	gest no of atoms?	
ii.	A) 2.5moles of CH4 B) 10.0 r	noics of He	C) 4.0 moles of So ₂	D) 3.0 moles of NH ₃
11.	The PH of a solution is 10. Who A) 10 ⁻⁴ M B) 10 ⁻¹⁰ M C	at will be the	e [OH] ion concentrat	1011.
iii.	The unit of rate is) 10 M	D) 10 M	
	A) Mole dm ⁻³ S ⁻¹ B) Mole-	-1 dm ³ S ⁻¹	C) Mole dm ⁻³ S	D) Mole dm ³ S ⁻¹
iv.		a is	C) More din 3	D) Mole dili 3
		(1) +5	D) +7	
V.	Sn ⁺⁺⁺ + 2e → Sn ⁺⁺ ; the radiation	on is	2)	
			oxidation radiation	
	C) Reduction Radiation D) Oxidation	Radiation	
Vi.	SHE is used for			THE PARTY OF THE P
	A) Calomel electrode B) Fema	le C) Stand	lard Hydrogen electro	des D) Male
Vii	For the radiation $MgF_{2(s)} \rightarrow Mg$	g Ag+2 Ag 1	the solubility products	s is given by
	A) $K = [Mg] [H]$ B	$MgF_2 =$	KSP	
	[MgF ₂]	[Mg ²⁺] [F	*]	
vii	C) KSP = $[Mg^{2^{k}}][F^{2}]$ D) $[M^{2+}g]^2[F$	$= K_{SP}$	
V.11	a - z			
ix.	-,) dsp ² D) SP		
	A) Ferromagnetic B) Diamagn	netic C) P	gramannatic D) No.	so of them
х.	Hydrogen bond is	nene c)1.	aramagnetic D) Noi	ie of them
) Weaker th	an covalent	
5	C) Stronger than covalent D) Weaker th	an covalent and stron	oer than ionic
xi.	The volume of a given mass of	a gas is inve	ersely proportional to	the pressure
	at constant temperature is called	l as	Y	
	A) Dalton's Law B) Avoga	ardro Law	C) Boye Law	D) Charle Law
XII.	The state of the s	um is		
	A) More than Li B) Less than I	i C) More	than Mg D) less than	mg and less than Li
Xiii	. All ordinary gas will behave ide	ally under t	he following condition	n
	A) Low temperature and high pr	ressure B)	High temperature and	l low pressure
xiv	B) Low temperature and low pro	essure D) I	ligh temperature and	high pressure
Alv	TALLEY.	e in paper c	hromatograph	
XV.	A) Acetone B) Alcohol C The H-O-H angle in water is) water	D) Piece of filter pay	per
	A) 109.5° B) 120° C) 180°	TO 104 50	
xvi		is	D) 104.5 ⁰	
*	A) Square planar B) Trigon	ial planar	C) Tetetoacudrod	D) Demand to
xvi	Which of the following compou	ind is used in	salt bridge	D) Pyramidal
	A) KBr B) Kel C) Bacl ₂	D) MgBr ₂	
xvi	ii. Chemical kinetic deals with			
	A) iteat of chemical reaction B	Enthalpy o	f chemical reaction	
	C) Born's Habber Cycle D) Rate of a c	hemical reaction	

CHEMISTRY-I

(New Course)

Time for section B and C is 2 hours and 40 minutes.

SECTION B

Marks: 40

Attempt any TEN parts, Each part carries FOUR marks.

- Prove that $q_r = \Delta$ and $q_p = \Delta H$
- ii. The boiling point of water is more than ethyl alcohol; why?
- iii. Define buffer solution. Why it control the PH of the solution.
- iv. Define activation energy. Why it is necessary for the molecules of the reactants to form the products.
- v. Differentiate between Honiogenious and Heterogeneous equilibrium and write the equilibrium constant KC for the following reaction. Ca(Co_{3(s)} → CaO_(S) + Co_{2(g)}
- vi. For an atom the value of l = 1 find the values of m and draw the shape and orientation of orbital. Hint = 1 = Azimutnal Q. No. and m = magnetic Q. No.
- What happens to the energy of an electron when the distance between the nucleus and vii. electron increases. Also calculate the energy of electron where the radius of the Atom is equal to infinity.
- viii. Define the graham's law of diffusion of gases and Avogardro law.
- The Half life of first order reaction is independent of the initial concentration why? ix.
- х. Calculate the No of moles of NaOH in 10g of NaOH
- What will be the molarity of H₂SO₄ solution containing 4.9g in 250cm³ of a solution. xi.
- xii. Write the equilibrium constants K_C and K_P for the following general reversible reaction. $IL_{(g)} + mM_{(g)}$ $aA_{(g)} + bB_{(g)}$
- xiii. Differentiate between empirical and molecular formula. Give at least four examples of each.

SECTION C

Note: Attempt any THREE questions from this section, Each question carries equal marks.

Marks: 27

- III. a) State and explain the Hess's law of Heat summation.
 - b) Calculate the Heat of formation of acetylene (C2H2)

 $2C_{(s)} + H_{2(g)} \rightarrow C_2H_{2(g)}$; $\Delta H = ?$ from the following data.

- $C_{(s)} + O_{2(g)} \rightarrow Co_{2(g)}$; $\Delta H = -393.7 \text{Kj}$
- ii)
- $H_{2(g)} + \frac{1}{2}O_{2(g)} \rightarrow H_2O_{(l)}; \Delta H = -284.3 \text{Kj}$ $C2H_{2(g)} + \frac{5}{2}O_{2(g)} \rightarrow 2Co_{2(0)} + H_{2(l)}; \Delta H = 1296 \text{Kj}$ iii)
- IV. a) What do you mean by Auto proteolysis of water; derive an expression for ionization constant of water (Kw)
 - What will be the hydroxylation concentration in a solution having the [H3+O] b) concentration 10⁻¹¹M
- Define the elevation of boiling point. How it can be used for the determination molecular a)
 - The boiling point of water is 99,725, to a sample of 600g of water are added 24.0g of b) solute having molecular mass of 58g.mole-1, to form a solution. Calculate the boiling point of the solution.
- Write detail notes on any two of the following. VI.
 - i., Quantum Numbers.
 - ii. Hybridization.
 - iii. Electrode Potential