# USWA COLLEGE ISLAMABAD Class XI Paper Biology

Time Allowed : 30 Minutes	Total Marks:30		
Name :	Father's name:		
Roll NoAttempt any TEN (10) Questions on the	•	Note:	
		ry equal(s) marks	
Draw labelled Diagram of ne	phron		

How insulin and Glucagon work by antagonistic way
<del></del>
3. Name bones of forelimb of human
4. Explain Trachea and Bronchus of Respiratory System

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5 Draw labe	led Diagram of Brain.	

	6. What are functions of Ovaries and Oviduct?	
-		
	7. Define law of independent assortment and give one	example.
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-		
 \		
	ow DNA is cut in Genetic Engineering?	

	9. What are nitrogen fixing Bacteria?
	10. Name trankia lavale in food shain
	10. Name trophic levels in food chain
11.	Explain Binary fission in Bacteria.

13. Explain structure of neuron.	
13. Explain structure of neuron.	

## USWA COLLEGE ISLAMABAD Class XI Paper Chemistry

Time /	Allowed : 30 Minutes	Total Marks:30
Name :		Father's name:
		Group:
Note:	All the question are to be attempte	ed on the QUESTION PAPER. All questions carry equal(3) marks
1.		and basic salt with examples.
2.	Define acidic rain and give any two e	effects on environment.

3.Differentiate between empirical formula and molecular formula with examples
4. How can you predict the direction of a reaction by using the equilibrium constant?
5. Give the structural formula of isobutane ,isopentane and propene.

6. What is meant by glucose and fructose?
7 what are the officete of clobal warmsing?
7. what are the effects of global warming?
8. How polarity of water molecule play its role to dissolve the substance?

9.Expl	ain the process of roasting.
  10. wh	
  10. wh	nat happens when ammonical brine is carbonated?
  10. wh	nat happens when ammonical brine is carbonated?
10. wh	nat happens when ammonical brine is carbonated?
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	nat happens when ammonical brine is carbonated?

## **USWA COLLEGE ISLAMABAD**

**Class XI** Paper Computer Science

Time Allowed: 30 Minutes		Total Marks	: 30
Name:	F	ather's Name:	
Roll No.	Group:	Centre	
		all questions carry equal marks.	
Q.1: write any 6 short quest	tions of the following.		
1. Define Algorithm?			
2. Make a truth table	of AND GATE, with D	DIAGRAM.	
3. Differentiate between	een Syntax and Sema	antic?	
4. What are the Char	racteristics of High Le	vel Languages?	
5. Construct a TRUT i) XY'Z+X'YZ+X'Y'Z'	H Table of following. ii)XY+YZ+XZ		
6. Construct a LOGIC i) A'B'C+AB'C'+A'B'C	C DIAGRAM of followi	ing.	

7. Write a note o	on Integrated Development Environment (IDE).
8. Define Reserv	ved Words in C Language?
9. Define PREPI	ROCESSOR DIRECTIVES?
	ting? Write down the steps to solve a problem.
. Write a C program to	find the sum and average of three numbers.
. What is operating sys	stem? What are the functions of operating system?

## USWA COLLEGE ISLAMABAD

Paper: English Class: First Year
Time Allowed: 30 Minutes Max.Marks: 30

Name:_		_ Father's Nan	<i>ie:</i>				
Roll No	÷	Group	ne:				
Note: All que	stions are to be attem	pted on the que	stion papers.				
Question 1. Circ	cle the correct option. (10	<b>)</b> )					
1. I said to him,	"Why are you working	so hard?'' The cor	rect indirect is:				
A. I asked him w	hy he was working so har	d. B. I as	B. I asked him why was he working so hard				
C. I asked him w hard.	hy had he been working s	o hard. D. I as	D. I asked him why he had been working so				
2.The tiger caug	ght a fox. The correct pas	ssive is:					
A. A fox has bee	n caught by the tiger.	B. A fo	B. A fox was caught by the tiger.				
C. A fox is caugl	nt by the tiger.	D. A fo	D. A fox had been caught by the tiger.				
3. He believes in	the policy of <u>making ha</u>	y while the sun shi	nes. The underlined part means:				
A. giving bribes	to get his work done	B. seek	B. seeking advice from one and all				
C. helping those	who help him	D. maki	D. making the best use of a favourable situation				
4. The performa	ance of our players was r	rather worst than I l	nad expected. The correct clause is:				
A. bad as I had e	xpected	B. wor	B. worse than I had expected.				
C. worst than wa	as expected	D. No correction required					
5. Choose the co	orrectly spelt word.						
A. Comitte	B. Committee	C. Committee	D. Comiittee				
6.A disease that	spreads over a large are	a is called:					
A. Infection	B. Cancer	C. Plague	D. Epidemic				

7. The antonym of 'l	Bitter' is :				
D. Sweet	B. Blunt		C.Bold		D. Timid
8. If I would	not lose temper. Tl	he corre	ect conditi	onal claus	e is:
A. I were you	B. I was you		C.I will b	e you	D. I am you
9. A mosquito is flying	ng your head	ł.			
A. up	B. at	C. ove	r	D. on	
10. They are two bro	others, but	of them	is hardwo	orking.	
A. none	B. neither	C. eith	er	D. not an	у
Question 2. Determine the following sentence		ech (ver)	b, noun, a	djective et	c) of the underlined words in
1. He didn't take anyt	hing during the fas	<u>t</u> . (	)		
2. Muslims <u>fast</u> durin	g Ramazan.(	)			
3. I missed the <b>fast</b> tra	ain. (				
4. She speaks <b>fast</b> . (	)				
5. I have a pain in the	back. (				
6. I will come <b>back</b> in	n five minutes. (	)			
7.Have you closed the	e <u>back</u> door? (	)			
8. Please <u>back</u> your c	ar a little. (	)			
9. The earth is <b>round</b>	. ( )				
10. The boys ran <b>rou</b>	nd the tree. (	)			
Question 3. Write a Covid-19'.	paragraph in abo	out 100	words on	'Importa	nce of Vaccination against

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Question 4. Translate into English: (7)
تعلیم ہماری زندگی کا ایک لازمی حصہ ہے۔ہم علم کے بغیر پھیر تھی نہیں۔تعلیم کے حصول کاسب سے بڑاقدم خود ایک اسکول میں داخلہ لینا ہے۔اسکول زیادہ ترلوگوں کے لئے
سکیفنے کی پہلی جگہ کے طور پر کام کر تاہے۔میر ااسکول میر ادو سر اگھرہے جہاں میر ازیادہ تروقت گزر تاہے۔سب سے بڑھ کر ،اس سے مجھے زندگی میں بہتر کام کرنے کاایک پلیٹ
سیمنے کی چنگی جلہ کے طور پر کام کر تاہے۔میر ااسکول میر ادوسر اھرہے جہال میر ازیادہ تروقت کزر تاہے۔سب سے بڑھ کر،اس سے جھے زندگی میں جہتر کام کرنے کا ایک پلیٹ
فارم ملتاہے اور میری شخصیت بھی مضبوط ہوتی

# USWA COLLEGE ISLAMABAD Class XI Paper Mathematics

	Allowed: 45 Minutes			F 4 2		Total Marks:30
	: No					
Koli P	NO			Group:		
Note:	All the question are	to be attempted on th	e QUE	STION PAPE	R.	
Q. 1	Encircle the correct	t option i.e A/B/C/D.	All Part	ts carry equal	marks.	(Marks – 18)
i)	Two linear factors of	$x^2 - 15x + 56$ are				
	A) $(x-7),(x+8)$	B) $(x+7),(x-8)$	C) ( <i>x</i>	(x-7),(x-8)	D) ( <i>x</i>	+7),(x+8)
ii)	The number of terms A) 1	s in a standard quadrati B) 2	c equation C) 3	ion $ax^2 + bx + c$	t = 0 D) 4	
iii)	Roots of the equation	$4x^2 - 5x + 2 = 0$ are				
	A) irrational		C) rat	ional	D) no	ne of these
iv)	The nature of the roo	ots of equation $ax^2 + bx$	x + c = 0	is determined	by	
	A) Sum of the roots	B) Product of the roo	ots	C) Synthetic	division	D) discriminant
v)	In a ratio $a:b$ , $a$ is $a$	called				
	A) relation	B) antecedent	C) co	nsequent	D) no	ne of these
vi)	If $\frac{u}{v} = \frac{v}{w} = k$ , then					
	A) $u = wk^2$	$B) x^2y^2$	C) <i>u</i> :	$=w^2k$	D) $\frac{y^2}{x^4}$	- -
vii)	A fraction in which t is called	he degree of numerato	or is grea	ater or equal to	the degr	ree of denominator
	A) a proper fraction	B) an improper fract	ion	C) an equatio	n	D) algebraic
relatio	on					
viii)	Partial fractions of $\frac{1}{2}$	$\frac{x+2}{(x+2)(x^2+2)}$ are of the	he form			
	$A) \frac{A}{x+1} + \frac{B}{x^2+2}$	$B) \frac{A}{x+1} + \frac{Bx+C}{x^2+2}$		C) $\frac{Ax+B}{x+1}$ +	$\frac{C}{x^2 + 2}$	$D) \frac{A}{x+1} + \frac{Bx}{x^2 + 2}$
ix)	Power set of an emp	ty set is				
	Α) φ	B) $\{a\}$		C) $\{\phi,\{a\}\}$		D) $\{\phi\}$
x)	If $A \subseteq B$ , then $A - B$	is equal to				
	A) A	B) B		C) <i>\phi</i>		D) $B-A$
xi)	Mean is affected by	change in				
,	A) value	B) ratio		C) origin		D) None of these
xii)	*	s of the variable X from	m its m	, 0		•
•	A) zero	B) one		C) same		D) None of these

xiii) If 
$$\tan \theta = \sqrt{3}$$
, then  $\phi$  is equal to

A) 90°

B)  $45^{\circ}$ 

C)  $60^{\circ}$ 

D)  $30^{0}$ 

$$xiv) \qquad \frac{1}{1+\sin\theta} + \frac{1}{1-\sin\theta} = \underline{\hspace{1cm}}$$

A)  $2\sec^2\theta$ 

B)  $2\cos^2\theta$ 

C)  $\sec^2 \theta$ 

D)  $\cos \theta$ 

$$xv) \qquad \frac{1}{2}\cos ec45^{\circ}$$

A)  $\frac{1}{2\sqrt{2}}$ 

B)  $\frac{1}{\sqrt{2}}$ 

C)  $\sqrt{2}$ 

D)  $\frac{\sqrt{3}}{2}$ 

How many tangents can be drawn from a point outside the circle? xvi)

C) 3

D) 4

xvii) If  $\alpha$ ,  $\beta$  are the roots of  $3x^2 + 5x - 2 = 0$ , then  $\alpha + \beta$  is

A)  $\frac{5}{2}$ 

B)  $\frac{3}{5}$  C)  $-\frac{5}{3}$ 

D)  $-\frac{2}{3}$ 

xviii) If a:b=x:y, then alternendo property is

A)  $\frac{a}{x} = \frac{b}{v}$ 

B)  $\frac{a}{b} = \frac{x}{y}$  C)  $\frac{a+b}{b} = \frac{x+y}{y}$  D)  $\frac{a-b}{b} = \frac{x-y}{y}$ 

### Solve the Following Questions $(4 \times 3 = 12)$ Q. 2

$$_{i)}$$
 Solve  $3x^{2x+2} = 12.3^x - 3$ 

### ii) Solve the following simultaneous equations

$$7x^2 - 3y^2 = 4; \qquad 2x^2 + 5y^2 = 7$$

iii) The following frequency distribution the weights of boys in kilogram. Compute median

Class intervals	1-3	4 - 6	7 – 9	10 – 12	13 -15	16 – 18	19 – 21
Frequency	2	3	5	4	6	2	1

iv) 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?

## **USWA COLLEGE ISLAMABAD**

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Entry	y Test 2021			Class XI
Mark		Paper Phy	ysics  Father's name:	Total
	· 		rauler 8 hame	
Roll N	No		Group:	
Note:	All the question are	to be attempted on the Q	UESTION PAPER.	
Q. 1	Encircle the correc	t option i.e A/B/C/D. All	Parts carry equal marks.	(Marks – 15)
i)	Least count of physi	cal balance		
,	A) 0.1 g		C) 0.001 g	D) 1 g
ii)	, ,	Km/h. Its speed in m/s	2, 2.22 8	, 8
/	A) 10	B) 20	C) 30	D) 40
iii)		ed 10 KN force in 50 Kg b	,	, -
,	A) 500	B) 5000	C) 50000	D) 500000
iv)	,	quilibrium center of gravity	of a body is that	,
,	A) higher	B) lower	C) at same level	D) both A & B
v)	, •	eight of two earth radius w	· · · · · · · · · · · · · · · · · · ·	,
,			_	<sub>D</sub> , 1
	A) $\frac{1}{3}g$	B) $\frac{1}{4}g$	C) $\frac{1}{6}g$	D) $\frac{1}{9}g$
vi)	Energy possessed by	stretched spring of watch		
	A) K.E	B) Gravitational P.E	C) Elastic P.E	D) Electrical energy
vii)	The density of a sub	stance cab be found with h	elp of	
	A) Pascal's Law	B) Hook's Law C	) Archimedes Principle D)	Principle of
flotati				
viii)	At -40C <sup>0</sup> the value is	n Fahrenheit is		
	$A) - 20F^0$	$\mathrm{B})-40\mathrm{F}^0$	C) $-32F^{0}$	D) $-60F^{0}$
ix)	In solids heat is tran	sferred by		
	A) Conduction	B) Convection	C) Radiation	D) Absorption
x)	Which one is not ex	ample of simple Harmonic	motion	
	A) simple pendulum	1	B) mass spring syste	m
	C) ball & bowl syste	em	D) bouncing ball at g	ground
xi)	If at Anarkali Bazar Wm <sup>-</sup>	Lahore intensity level of s	ound is 80 dB then its inter	nsity would be
	A) 20	B) 15	C) 25	D) 10
xii)	Which of following	quantity is not changed du	ring refraction?	
	A) its direction	B) its speed	C) its frequency	D) its wavelength
xiii)	Electroscope works	on principle of	- •	-
	A) Coulomb's Law		B) Ohm's Law	
	C) Electrostatic indu	ection	D) Electromagnetic i	nduction

xiv)	$lev = _{-}$		J				
	A) 1.6	$\times 10^{19}$		B) $1 \times 10^{-19}$	C) 1	$.6 \times 10^{-19}$	D) $1 \times 10^{19}$
xv)				thode surface are			
0.4	,	sitive ions		B) Negative ion	s C) P	rotons	D) Electrons
Q. 2	Attem	pt any FIVE	(5) ques	stions.		(	$(5 \times 3 = 15)$
i)	Action	and reaction	are alwa	ys equal then hov	w does a bo	dy move?	
ii)	Define	capacitance.	Name fa	ctors upon which	it depends		
iii)	Lenz's	Law is mani	festation	of Law of Conse	rvation of e	energy Prov	ve this statement by
suitab		example.	- C S <b>tut</b> 1 0 11	of Zaw of Comse	r vacion of c	mergy. 110	o mis succineme sy
iv)	Differe	entiate betwee	en cosmi	c and background	l radiations.		

') 	Define critical angle and write conditions for total internal reflection.
i) 	Prove that in SHM when K.E is maximum P.E is zero and when P.E is maximum K.E will be zero.