R. NO: \_\_\_\_\_

# ENTRY TEST FOR CLASS – 11<sup>th</sup> 2025 (MODEL PAPERS)

**PAPER: CHEMISTRY** Maximum Marks: 50 Time: 40 Minutes Choose the correct option Marks: 20

Q-1.	Choose the correct	•		IVIdI K5. 20		
i.		ving is NOT a compound _				
	(a) He	(b) H <sub>2</sub> O	(c) CO <sub>2</sub>	(d) CO		
ii.				carbon and their derivatives is		
			try (c) analytical chemistry	(d) inorganic chemistry		
iii.		ving is chemical reaction _				
	(a) Melting Ice	(b) Rusting Iron	(c) Boiling water	(d) Mixing salt and water		
iv.	The L-Shell has sub					
V.	(a) s and p	(b) s only	(c) s, p and d	(d) Only p		
		unctional group of aldehy				
	(a) -OH	(b) -NH2	(c) -X	(d) -HCO		
vi.	Brass is an example					
		mixture (b) Homogenous	mixture (c) Compound	(d) Pure substance		
vii.	What is the IUPAC no		( ) 5	(1) 2 (1)		
	(a) Methanol	(b) Ethanol	(c) Propanol	(d) Butanol		
viii.	-	mosphere containing mor		(1) 6: 1		
	(a) Troposphere	(b) Mesosphere	(c) Thermosphere	(d) Stratosphere		
ix.	CH <sub>4</sub> <sup>+</sup> is an example		( ) D   !:			
	(a) Cation	(b) Anion	(c) Radical	(d) Molecular ion		
х.	What is the conjuga		( ) LIGH	(1) 11 0		
	(a) Cl <sup>-</sup>	(b) H <sup>+</sup>	(c) HCI <sup>+</sup>	(d) H <sub>2</sub> O		
xi.		ollowing has two shells	(-)	(4) 61		
	(a) C	(b) He	(c) H	(d) Cl		
xii.	Modern periodic ta		(a) Nicotas a Nicos la co	(d) Chall Neverland		
	(a) Atomic Number (b) Mass Number (c) Neutron Number (d) Shell Number  The building block of protein is					
xiii.	_		(a) Austra Astria	(d) Fatter and an alpha l		
	(a) Glucose	(b) Nucleotides	(c) Amino Acids	(d) Fatty acid and alcohol		
xiv.		on number of Oxygen in th		(4) 1		
	(a) +2	(b) -2	(c)+1	(d) -1		
XV.	•	n gram) of 2 moles of NaO		(4) 50-		
:	(a) 25g	(b) 40g	(c) 80g	(d) 50g		
xvi.			the solubility of a solute a			
va dii	(a) Pressure	(b) Temperature	(c)IMF	(d) Particle size		
xvii.	Which of the following statements about chemical equilibrium is true?  (a) Equilibrium is dynamic state  (b) Equilibrium is static state  (c) The rate of forward and reverse					
			•			
xviii.	reactions are equal at equilibrium (d) The concentration of reactant and product are equal What is the Oxidation number of Sulphur in the compound $H_2SO_4$ ?					
AVIII.	(a) +4	(b) -4	(c)+6	(d) -6		
xix.		nsible for the sour taste o		(d) 0		
AIA.	(a) lactic Acid	(b) citric acid	(c) Acetic acid	(d) Hydrochloric acid		
vv		s used to prepare	• •	(a) Tryal demone acia		
XX.				(d) Ammonia		
	(a) Calcium Carbo	nate (b) Sodium Carbor	nate (c) Urea	(d) Ammonia		
NOTE:	Attemnt all question	ons. All augstions carry go	uual marks	Marks: 30		
Q-2:	E: Attempt all questions. All questions carry equal marks.  Marks: 30  Separate the following compounds into organic and inorganic (CO <sub>2</sub> , H <sub>2</sub> O, NaCl, C <sub>6</sub> H <sub>6</sub> , NH <sub>3</sub> , C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ).					
Q-3:		ectronic configuration of (a		,, 14001, 00110, 14113, 00111200,		
Q-4:		group give at least 4 exam				
Q-5:			se, Amino Acid and Urea).			
Q-6:		ression and unit for the fo				
	> 2HI		<b>3</b>			
	$\sim$ N <sub>2</sub> + 3H <sub>2</sub>					

R. NO: \_\_\_\_\_

#### ENTRY TEST FOR CLASS – 11th 2025 (MODEL PAPERS)

Maximum Marks: 50 PAPER: BIOLOGY Time: 40 Minutes

Q-1:	Choose the correct option.		Marks: 20			
i.	is the study of the naming and classification of organisms into groups and subgroups.					
	(A) Physiology (B) Taxonomy (C) Morphology (D) Histology					
ii. Which of the following hormone affects the renal tubules to reabsorb large quantities of water from						
	filtrate?					
	(A) Thyroid Stimulating hormone (B) Luteinising horn	mone (C) Oxytocin	(D) Antidiuretic Hormone			
iii.	A food web consists of					
	(A) Interlocking food chains (B) Producers, consun	ners and decomposers	(C) A portion of a food chain			
	D) A set of similar consumers					
iv.	The enzymes which are used to cut the DNA in specific					
	(A) Ligase (B) Protease	(C) DNAase	(D) Endonuclease			
٧.	An organism has two different alleles for a single trait.					
vi	(A) Homozygous (B) Heterozygous Internal fertilization occurs in	(C) Hemizygous	(D) Homologous			
vi.	(A) Fish (B) Amphibians	(C) Aquatic animals	(D) Mammals			
vii.	The purpose of ribcage is to	(C) Aquatic attitudis	(D) Ivialilitais			
VII.	(A) Protect the stomach (B) Protect the spinal cord	(C) Protect the heart and	Llungs			
	(D) Provide an object to which the lungs can attach	(e) i roteet the near tane				
viii.	Which of these acts an exocrine as well as endocrine g	gland?				
	(A) Pituitary (B) Thyroid	(C) Adrenal	(D) Pancreas			
ix.	Organisms have the ability to change and modify their		ding to the environment through			
	(A) Osmoregulation (B) Excretion	(C) Thermoregulation	-			
х.	Which part of the air passageway is also called the wir	ndpipe?				
	(A) Bronchus (B) Trachea	(C) Alveolus	(D) Larynx			
xi.	Entomology is					
	(A) The study of insects (B) The study of fossils		(D) The study of immune system			
xii.	The various forms of a gene responsible for the same					
	(A) Centromere (B) Character	(C) Trait	(D) Allele			
xiii.	A Hydra reproduces asexually by					
	(A) Spore formation (B) Multiple fission	(C) Budding	(D) Binary fission			
xvi.	Which of these is a part of the appendicular skeleton?		(5)			
	(A) Ribs (B) Sternum	(C) Pectoral girdle	(D) Vertebral column			
XV.	Intelligence is under the control of  (A) Cerebrum (B) Cerebellum		(D) The leaves			
wi		` '	(D) Thalamus			
xvi.	All of the following are the adaptation of xerophytes e (A) Thick cuticle (B) Large number of stomata	-	(D) Deep root system			
xvii.	Oxygen from the lungs enter into the blood due to		(b) beep root system			
AVII.	(A) Diffusion (B) Less affinity of $O_2$ for air	 (C) Higher affinity of CO	), for air (D) Osmosis			
xviii.	The central dogma is best represented by	(e) riigher arminey or eo	2 101 all (B) 031110313			
Α•	(A) DNA + RNA = Protein (B) DNA → RNA + Protein (	C) DNA $\rightarrow$ RNA $\rightarrow$ Protein	(D) Protein $\rightarrow$ RNA $\rightarrow$ DNA			
xix.	All multicellular animals develop from a single cell, cal		(=)			
	(A) Egg (B) Sperm	(C) Zygote	(D) Blood cell			
xx.	Bones are stronger than cartilage due to the presence		,			
	(A) Calcium phosphate (B) Osteosytes	(C) Collagen fibres	(D) Lacunae			
Q-2:	Fill in the blanks.					
(i)	The study of internal structure of organisms is called					
(ii)	Inside the thorax, the trachea divides into two tubes called					
(iii)	Theof human beings and other mammals have been adapted as the organ for thermoregulation.					
(iv)	The brain is covered by three layers of membranes, collectively called					
(v)	Humans have pairs of cranial nerves.					
(vi)	The bio-molecules with low molecular weight are called					
(vii)	Genes are short segments of					
(viii)	The loss of water from the plants in the form of small droplets is called					
(ix)	The larynx or voice box opens into the	•				
(x)	There is one bone in the neck called thebone	e.				
	Attempt any three questions.	ation				
Q-3:	Differentiate between the terms breathing and respiration.					
Q-4: Q-5:	What is Binomial nomenclature?  Differentiate between the adaptations of hydrophytes and veraphytes for esmoragulation.					
დ⁻ა.	Differentiate between the adaptations of hydrophytes and xerophytes for osmoregulation.					

State any five hormones of the pituitary gland and write their functions.

Q-6:

#### ENTRY TEST FOR CLASS - 11th 2025 (MODEL PAPERS)

Marks: 10

Maximum Marks: 50 PAPER: COMPUTER SCIENCE Time: 40 Minutes

Q-1:

Choose the correct option.

(a) Web page

(b) Website

i.	Which of the following	is an output dovice f	for providing bardcony	of output?	
1.	_	(B) Printer	(C) Speaker	(D) Microphone	
ii.	Which of the following	• •	· · ·	• •	
	_	(B) Glass	(C) Smart watch	(D) Quantum compute	r
iii.	Which company is the	developer of office a	utomation software?		
	(A) Apple (	(B) Linux	(C) Microsoft	(D) Intel	
iv.	Which type of signals a	are used in Bluetooth	transmission?		
	• •	(B) Light waves	• •		
٧.	_	•		transform the input into c	utput?
		(B) Algorithm	(C) Output	(D) All of the above	
vi.	A quantity whose value	_			_•
vii		(B) Byte	(C) Words	(D) Constant	
vii.	Which symbol is used to (A) Square (	(B) Diamond	(C) Rectangle	(D) Arrow	
viii.	•	• •	. ,	how much of various typ	nes of resources i
VIII.	consumes.	cribe properties or ar	raigoritimi relating to	Thow mach or various typ	ics of resources i
	(A) Complexity of Alg	gorithm	(B) Efficiency of an Al	gorithm	
	(C) Candid Solution	5	(D) None of these		
ix.	The output of the com	piler is called			
	(A) Program (	(B) source code	(C) linked code	(D) object code	
х.	The execution of a C pro	ogram starts from fur	nction:		
	(A) const ()	(B) main()	(C) name()	(D) start()	
Q-2:	Fill in the blanks.			Mi	arks: 10
i.	Text or image in a webp	page that links it to ar	nother webpage is call	ed	
ii.	A collection of webpages hosted on a web server is called				
iii.	Transistors were used in generations				
iv.	is considered the father of modern digital computer				
٧.	translates a pr	ogram statement by	statement or line by li	ne.	
NOTE	: Attempt any three Qu	estions.		Marks: 30	
Q-3:	Differentiate between	(a) RAM and ROM (	(b) Half Duplex and Fu	ll Duplex Transmission	
Q-4:	What is flowchart? Exp	olain flowchart symbo	ols in detail.		
Q-5:	Write a program in C that prints a larger of two numbers.				
Q-6:	Define the Following:				

(c) Search Engine (d) Web browser (e) Loops

R. NO. \_\_\_

#### ENTRY TEST FOR CLASS – 11th 2025 (MODEL PAPERS)

**PAPER: PHYSICS** Time: 60 Minutes Maximum Marks: 50 Marks: 10 Q-1: Fill in the blanks. 1. The distance traveled by wave in unit time is called \_\_\_ 2. The pitch of sound depend on ..... The minimum distance for the echo to be heard is ...... 3. If the angle of incidence is 30 degree then the angle of reflection will be ...... 4. 5. Electric potential V is given by the equation ...... 6. The S.I unit of capacitance is ...... A device used to measure potential difference is called ...... 7. 8. Volt per ampere represent ..... 9. The S.I unit of activity is ..... The slope of distance time graph represent ...... 10. Marks: 20 Q-2: Choose the correct option. The bending of waves around the edges of the obstacles is: 1. (C) diffraction (A) Reflection (B) refraction (D) damping. 2. Which of the following cannot transmit sound? (A) Solid (D) vacuum (B) liquid (C) gas 3. Unit of coefficient of friction is: (D) it has no units (A) N  $(C) \mu$ (B) Kg 4. The S.I unit of work is: (A) Joule (B) watt (C) j/m(D) none 5. A body in equilibrium must not be: (A) At rest (B) moving (C) rotating (D) accelerating 6. Work done will be zero when the angle between force and displacement is: (A) 30° (B) 45° (C)  $60^{\circ}$ (D)90° 7. Which of the following is the best heat conductor? (A) Aluminum (B) tin (C) Iron (D) Copper 8. Waves transports: (C) both matter and energy (A) Energy (B) matter (D) None 9. Cathode rays are beam of (A) Electrons (B) protons (C) ions (D) neutrons The resistance of wire will decrease by increasing: 10. (C) diameter (D) Both A and B (A) Temperature (B) Length Which one of the following materials will refract light more? 11. (A) Water (B) glass (C) air (D) diamond For each 1°C rise in temperature, the speed of sound increases by: 12. (B) 0.006m/s (C) 6m/s (D) 1.06m/s (A) 0.6m/s 13. Acceleration is the time rate of change of: (A) Displacement (B) velocity (C) speed (D) all The value of g at the surface of the moon is: 14. (A) 9.8m/s<sup>2</sup> (B)  $1.63 \text{ m/s}^2$ (C)  $4.9 \text{ m/s}^2$ (D)  $8.9 \text{ m/s}^2$ 15. Work done will be maximum when angle between force and displacement is:  $(A) 0^{\circ}$ (C)  $45^{\circ}$ (B) 90° (D) 60° 16. Electric field is: (A) Scalar quantity (C) depend on conditions (B) vector quantity (D) none In lens, all distances are measured from: 17. (A) Focus (B) pole (C) optical center (D) radius of curvature An electric current is constituted by the flow of: 18. (A) Neutrons (B) electrons (C) protons (D) all 19. The elongation or increase in size of the eye lens is a cause of: (B) hypermetropia (C) no eye defect (D) color blindness (A) Myopia 20. How many types of S.I units are \_\_\_\_ (B) Five (C) Seven (D) Nine (A) Two Attempt any three (3) questions. (Marks: 20) Note: Define newton second law, relate force to change in momentum I.e,  $F = \Delta P/\Delta t$ Q-3: Q-4: Define simple harmonic motion, show that mass spring system executes simple harmonic motion. Q-5: What are fission and fussion?

What is capacitor? Define capacitance and its units.

Q-6:

R. NO:

		ENTRY TEST FO	OR CLASS – 11 <sup>th</sup> 2025 (MODEL	PAPERS)
М	aximum Marks: 50	<u>PAI</u>	PER: MATHS	Time: 40 Minutes
Q-1:	Choose the corre	ct option.		Marks: 20
i.	How many circles			
	(a) one	(b) two	(c) three	(d) None
ii.	The formula $\frac{\sum x}{n}$ d	letermines		
	(a) Mode	(b) Arithmetic mean	(c) Median	(d) Geometric
iii.	When $3x^3 - 2x^2 -$	150 is divided by $x - 4$ then	remainder =	
	(a) 4	(b) 10	(c) 0	(d) -10
iv.	If A = {1, 2, 3}, B =	$\{4, 5\}$ and $R = \{(1, 4), (2, 5)\}$	, (3, 4)} then R is	
	(a) An one one fu	nction from A to B	(b) A function from B to A	
	(c) Not a function		(d) An onto function from A	A to B
v.	If 2a + 1 : 21 :: 4 :	7 then a =		
	(a) $\frac{13}{2}$	(b) $\frac{11}{2}$	(c) 10	(d) $\frac{9}{2}$
vi.	_	ed to complete the square o	of 9a² – 12ab?	
	(a) $- 16b^2$	(b) 4b <sup>2</sup>	(c) 16b <sup>2</sup>	(d) $-4b^2$
vii.	• •	on the same line they are s	aid to be points.	
	(a) Similar	(b) co-planer	(c) collinear	(d) Non
viii.	If sum of the mea	sures of ∠A and ∠C of a pa	rallelogram ABCD is 120° then m	1 ∠B =
	(a) 25°	(b) 120°	(c) 65°	(d) None of these
ix.	Point of intersecti	ion of the angle bisectors o	f a triangle is equidistant from _	of the triangle.
	(a) The vertices	(b) the sides	(c) midpoints of the side	<del>-</del>
x.	Which of the follo	owing represents the sides of	of a triangle?	
	(a) 3, 4 and 5	(b) 3, 4 and 7	(c) 3, 4 and 8	(d) 3, 4 and 1
xi.	In mathematics cl	ass with 32 students, the ra	atio of girls to boys is 5 to 3. How	w many girls are there in the class?
	(a) 2	(b) 8	(c) 12	(d) 20
xii.	The graph of the	quadratic equation is alway	ys .	
	(a) Straight line	(b) parabola	(c) ellipse	(d) none
xiii.		c=0, then it reduces to:		
	(a) Pure quadrati	c equation (b) Linear equat	tion (c) Radical equations	(d) Exponential equation
xiv.	$1 + w + w^8 = $	for complex cube	•	
	(a) 0	(b) – 1	(c) 1	(d) w <sup>9</sup>
xv.	For what value of	D is the (2 x 2) matrix $\begin{bmatrix} 5 \\ 2 \end{bmatrix}$	$\begin{bmatrix} 1.5 \\ D \end{bmatrix}$ not invertible?	
	(a) -0.6B) 0	(b) 0.6	(c) 3	(d)
xvi.	Characteristic of I	og 0.000 059		
	(a) - 5	(b) 5	(c) - 4	(d) 4
xvii.	If U={x/x is a posit	ive odd number less than 3	0} , R={1, 5, 7} and S={1, 3, 7, 11,	13 } then the number of elements in (R $\cap$ S
	=			
	(a) 15	(b) 13	(c) 7	(d) 2
vo dili	If f is a function fr	om A to B than fisints fur	action it	

If f is a function from A to B, then f is into function it \_\_\_\_\_

(a) Rang f = B (b) Rang  $f \neq B$  (c) Rang f = A

(d) Dom  $f \neq A$ 

#### **NOTE**: Attempt all questions.

Marks 4\*8=32

Find the values of m and n, if both sum and product of roots of the equation  $mx^2 - 3x - n = 0$  are equal to  $\frac{3}{5}$ ? Q-2:

Prove that  $\tan \theta + \text{Sec } \theta = \frac{1 + Sin\theta}{Cos\theta}$ Q-3:

If  $\alpha$  ,  $\beta$  are roots of  $2x^2+3x+1=0$  then find value of  $\frac{\alpha^2}{\beta}+\frac{\beta^2}{\alpha}$ Q-4:

Find the continued product of  $(x + y) (x - y) (x^2 + xy + y^2) (x^2 - xy + y^2)$ Q-5:

#### ENTRY TEST FOR CLASS - 11th 2025 (MODEL PAPERS)

Maximum Marks: 50 PAPER: ENGLISH Time: 40 Minutes

NOTE: Attempt all questions. No overwriting, cutting or use of ink remover is allowed.

Advantages and disadvantages of Social Media

Q-1:	Do as directe	ed.			(10)	
a)	The soft blanket kept us warm. The underlined word is a\an( adjective, adverb, verb)					
b)	Always respect your elders. Is a \an sentence.( optative, imperative, exclamatory)					
c)	The police is	The police is investigating the matter.( Change the voice)				
d)	I followed his	s instructions. ( change	e into simple fu	ture tense)		
e)	I wish I had _	powers. (magic,	magical, magic	ian)		
f)	All day long t	the sun plays hide and	seek with shad	lows, is an example	of ( simile, hyperbole, personificatio	n)
g)	What do you	like to do the we	ekend. (on, at,	in)		
h)	She said to me, "The always make a noise in the class". (Change the narration).					
i)	I want to go to the park, but it's raining outside. The underlined word is a\an(conjunction, interjection, verb)					
j)	The synonym of 'abundance' is( shortage, plenty, huge)					
Q-2:	Use the follo	owing words/expression	on in meaning	sentences.	(10)	
	(i) figure out	(ii) impeccable	(iii) tender	(iv) scarcity	(v) on account of	
Q-3:	Read the following paragraph and answer the questions given below (copy and pasting of answers from					
	the paragrap	oh is not allowed.			(10)	
	Genetics is th	ne study of genes, gen	etic variations,	and heredity in livir	g organisms. It is generally consider	ed a
	field of biology, but intersects frequently with many other life sciences. Genes are subunit of DNA, the					
	information (	database of any organ	nisms that is co	ontained inside the	cell nucleus. DNA carries many pai	rs of
	genes that tr	ansmit character trait	s of parents to	the offsprings.		
QUES1	ΓIONS:					
	(i) What	is genetics generally o	considered?			
	(ii) What are genes made up of?					
	(iii) What	does DNA carry?				
	(iv) Write	e meaning of the unde	rlined words.			
	(v) Give a	a suitable title to the p	assage.			
Q-4:	Write an essa	ay of 200 to 250 word	ls on the topic.		(20)	

# KARNAL SHER KHAN CADET COLLEGE SWABI ENTRY TEST FOR CLASS – 11<sup>TH</sup> 2025 (MODEL PAPERS)

**PAPER: URDU** Time: 60 Minutes Maximum Marks: 50 مندر حه ذیل الفاظ، تراکیب اور محاورات کواینے جملوں میں استعمال کریں۔ سوال نمبر 1:ـ (5) 2- حلتی پر تیل ڈالنا 3- مٹھی گرم کرنا 4-تگنی کا ناچ نجانا آفت ناگهانی **-**5 سوال نمبر 2:۔ مرکبات کی نشاندہی کریں۔ (5) غم وآلام شمع آزادی 5۔ ٹرک سے تذکیر وتانیث کے لحاظ سے درج ذیل الفاظ کوالگ الگ کریں۔ سوال نمبر3:\_ (5) \_2 جادر 4۔ شاخت 5۔ 3۔ صلہ مندرجه ذيل ضرب المثال كي مطلب واضح كرين. سوال نمبر 4: ـ (6) 2\_ رام رام جينا، پر ايامال اپنا 3\_ آڀآئ، بھاگ آئ ناچ نہ جانے آئکن ٹیڑھا 5۔ زبان خلق کو نقار ہُ خدا سمجھو 6۔ حبسادیس، وبسانجیس سوال نمبر 5:۔ درج ذیل سوالات میں سے صرف تین کے جواب کھیں۔ (9)(الف) محاورہاورروزمرہ میں مثالوں سے فرق واضح کریں (ب) مجاز مرسل کی تغریف ککھیں نیز دواقسام کے نام ککھ کرمثالیں تحریر کریں۔ (7.) جمله معترضه کی تعریف اور دومثالیں لکھیں۔ (د) صنعت تلہیج اور صنعت تلمیج میں فرق واضح کریں۔ سوال نمبر 6: ۔ اینے دوست کو کیڈٹ کالج کے "انٹری ٹیسٹ" میں کامیابی پر مبارک باد کاخط کھیں۔ (8) چیئر مین پورڈ کے نام حصول سر ٹیفکیٹ/سند (میٹرک) کے لیے درخواست لکھیں۔ سوال نمبر 7: ۔ مندر جہ ذیل میں کسی ایک موضوع پر مضمون لکھیں جو 150 الفاظ سے کم نہ ہو۔ (12)(الف) طالب علم کے فرائض (ب) کمپیوٹر۔عہد حاضر کی اہم ضرورت