

CADET COLLEGE GHOTKI
MODEL PAPER FOR ENTRANCE TEST CLASS-XI

Section-I (English)

Q:01 Write an essay on any one of the following

(a) Village Life is better than city life (b) Patriotism (c) A Football Match

Q:02 Write an application to your principal requesting him to grant your leave for one week.

OR

Write a letter to your brother inviting him to attend Annual Parents Day.

Q:03 Write down the Synonyms of the following words (Any Ten).

Harmful		Obesity		Addictive	
Disguise		Dispute		Resolve	
Mingle		Cross		Menial	
Discrimination		Fetch		Inspire	

Q:04 Do as Directed.

- | | |
|--|-------------------------------------|
| i) She cooks the meal. | (Change into Past Indefinite Tense) |
| ii) John played Squash yesterday. | (Change into Interrogative) |
| iii) This is the house ____ Jameel built. | (Put suitable relative pronoun) |
| iv) If you wear dark clothes you ____ your eyes. (Protect) | (Put suitable verb form) |
| v) I agree ____ you. | (Use preposition) |

Q:05 MCQs

Note:- Choose the correct option and write it in Correct Option's Column.							Correct Option
1.	Be careful when you walk ____ the street. You may encounter stray dogs there.						
	a	Though	b	Above	c	Across	d up
2.	While waiting of for my train, I took a walk ____ the station.						
	a	on	b	around	c	onto	d in
3.	The poachers go ____ the forest to hunt animals for their hide.						
	a	on	b	through	c	in	d over
4.	The door was locked, so I shoved the letter ____ the door.						
	a	around	b	under	c	on	d into
5.	The festival ____ lasted all day, ended with a banquet.						
	a	that	b	who	c	which	d what
6.	I am looking for someone ____ can watch my dog while I go on vacation.						
	a	which	b	who	c	whom	d that
7.	The police needed details ____ could help identify the robber.						
	a	who	b	whatever	c	that	d what
8.	Ali respects my brother, ____ is senior to him.						
	a	whose	b	who	c	whom	d that
9.	This is the pen ____ I gifted him.						
	a	whose	b	who	c	whom	d that
10.	Let's go for a walk ____ the shop to buy some grocery						
	a	to	b	past	c	around	d N.O.T

Section-II (Mathematics)

Note: Attempt any four questions from the following

Q: 01 If $A = \{1, 3, 5, 7, 9\}$ and $B = \{5, 6, 7, 8\}$ and $U = \{1, 2, 3, \dots, 10\}$ then prove that $(A \cup B)' = A' \cap B'$

Q: 02 If $\begin{bmatrix} a & b \\ c & d \end{bmatrix} + \begin{bmatrix} 3 & -1 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ then find a, b, c and d

Q: 03 Resolve $\frac{11-3x}{(x-1)(x+3)}$ into partial fractions.

Q: 04 Prove $\tan \theta = \sin \theta \sqrt{1 + \tan^2 \theta}$

Q: 05 Find θ , if $l = 20\text{cm}$ and $r = 5\text{cm}$

Note:- Choose the correct option and write it in Correct Option's Column.								Correct Option
1.	If $A = \{1, 2, 3, 4\}$ and $B = \{2, 4, 6\}$ then $A \Delta B =$							
	a	$\{1, 3\}$	b	$\{6\}$	c	$\{1, 3, 6\}$	d	$\{1, 2\}$
2.	Which operation is not commutative_____.							
	a	Symmetric difference	b	Union	c	Difference	d	intersection
3.	Which one is always is bijective_____.							
	a	Onto function	b	One-one function	c	Into function	d	One-one corresponding
4.	For matrix A , $(A^{-1})^{-1}$							
	a	A	b	$-A$	c	A^{-1}	d	A^{-2}
5.	The quadratic equation whose roots are complex cube roots							
	a	$x^2 - x - 1 = 0$	b	$x^2 - x + 1 = 0$	c	$x^2 + x + 1 = 0$	d	$x^2 + x - 1 = 0$
6.	The sum of central angles of all the arcs of a circle is_____							
	a	180°	b	360°	c	300°	d	1000°
7.	The system of measurement in which angle is measured in radian is called							
	a	CGS system	b	Sexagesimal	c	MKS system	d	N.O.T
8.	$10^0 =$ _____							
	a	$600''$	b	$3600''$	c	$600'$	d	600
9.	$\sin^2 \theta + \cos^2 \theta =$ _____.							
	A	2	b	-2	c	1	d	-1
10.	$\tan \theta \cot \theta =$ _____.							
	A	2	b	-2	c	1	d	-1

Section-II (Biology)

Note: Attempt any four questions from the following

Q: 01 Define cell and how cell was discovered?

Q: 02 Define following terms:

(i) Digestion (ii) Breathing

Q: 03 What is pollution?

Q: 04 Differentiate between photosynthesis and respiration.

Q: 05 Write five functions of Endoskeleton.

Note:- Choose the correct option and write it in Correct Option's Column.								Correct Option
1	Digestive system is an example of _____.							
	a	Tissue System	b	Organ System	c	Cells System	d	Cell
2	Deficiency of vitamin – K cause							
	a	Rickets	b	Anemia	c	Scurvy	d	Beriberi
3	Which is an example of organelle?							
	a	Mitochondria	b	Protoplasm	c	Cytoplasm	d	Cell
4	The sexual organ of plant is _____.							
	a	Flower	b	Fruit	c	Seed	d	Leaf
5	Total number of bio element is _____.							
	a	16	b	14	c	15	d	12
6	The movement of organic materials (Food) take place through.							
	a	Xylem	b	Vessels	c	Tracheid	d	Phloem
7	The area where living organism interact with non living components of the environment are called ____.							
	a	Population	b	Community	c	Ecosystem	d	Species
8	Which of these are involved in the clotting of blood?							
	a	Platelets	b	Hemoglobin	c	Albumin	d	Globulin
9	In Human heart blood returning from lungs first drains into the.							
	a	Left atrium	b	Left ventricle	c	Right Atrium	d	Right Ventricle
10	Unicellular is _____.							
	a	Rabbit	b	Euglena	c	Horse	d	Frog

Section-III (Chemistry & Physics)

Note: Attempt any two questions from each subject.

Chemistry

Q: 01 Differentiate between saturated and unsaturated compound hydrocarbons.

Q: 02 Describe vitamins and types of vitamins.

Q: 03 Define any two of the followings.

(i) Hard and soft water

(ii) Vital force theory

(iii) Neutralization Reaction

Physics

Q: 01 State Coulomb's law and define the unit of charge?

Q: 02 Define motion and its types.

Q: 03 What is ripple tank?

Note:- Choose the correct option and write it in Correct Option's Column.								Correct Option
1.	The study of properties of charges in rest and motion is called?							
	a	Electricity	b	Mechanics	c	Magnetism	d	N.O.T
2.	The least count of micrometer screw gauge is?							
	a	0.01mm	b	0.1mm	c	1mm	d	2mm
3.	What is a S.I unit of velocity?							
	a	Meter	b	Second	c	Meter/second	d	N.O.T
4.	Which one is a vector quantity?							
	a	Mass	b	Weight	c	Time	d	Length
5.	Which type of wave cannot travel in vacuum?							
	a	Sound wave	b	Radio wave	c	Micro wave	d	X-Rays
6.	The fundamental unit of length in S.I units is?							
	a	Meter	b	Kilometer	c	Yard	d	Foot
7.	10^9 shows							
	a	Mega	b	Giga	c	Kilo	d	Peta
8.	The value of g is?							
	a	6.8m/sec^2	b	7.8m/sec^2	c	8.8m/sec^2	d	9.8m/sec^2
9.	The units of time, mass and length are:							
	a	Fundamental Units	b	Derived Units	c	Supplementary Units	d	None
10.	The distance between mean position and extreme position is called							
	a	Displacement	B	Amplitude	C	equilibrium	d	Maximum distance

- نوٽ : هيٺيان سڀني سوال حل ڪريو.
- سوال 01. هيٺين مان ڪنهن به هڪ عنوان تي سهڻي سنڌي ۾ مضمون لکو.
1. علم وڏي دولت آهي 2. ڪمپيوٽر 3. چانڊوڪي رات
- سوال 02. پنهنجي ننڍي پاءُ ڏانهن خط لکي ، کيس پڙهائيءَ ۾ ڏيان ڏيڻ جو تاڪيد ڪريو.
- سوال 03. هيٺ ڏنل سوال حل ڪريو.
- (i) سڄل سرمست ڪڏهن ۽ ڪٿي ڄائو؟
- (ii) ڪلهوڙن جي آخري دور ۾ نصرپور ۾ ڪنهن ڦرلٽ ڪئي؟
- (iii) ڪينجهر ڍنڍ تي اهو نالو ڪيئن پيو؟
- (iv) نوريءَ جي قبر ڪٿي آهي؟
- (v) سنڌ جي ثقافت جي اهم سوکڙي ڪهڙي آهي؟
- سوال 04. هيٺين لفظن جي معنيٰ لکو.

اُهوڄاڻ	ڏيساور	دائمي	تڪرار	ڳڻتي
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سوال 05. درست جواب چونڊي لکو.

درست جواب	نوٽ: درست جواب چونڊي لکو ۽ درست جواب واري خاني ۾ لکو.
1.	آءُ اڄوڪي ڏينهن.....جي سمورين رسمن کي پنهنجي پيرن هيٺان لتاڙيان ٿو.
	(الف) جاهليت (ب) گمراهي (ج) پراڻي (ڊ) پراڻي
2.	عورتن جي معاملن ۾.....بچندا رهو.
	(الف) خداوند تعاليٰ (ب) رشتيدارن (ج) نيين (ڊ) نيين
3.	مومن عزت وارو ۽.....ڏليل آهي .
	(الف) فاجر (ب) فاسق (ج) ڪافر (ڊ) ڪافر
4.	نبي ڪريم ﷺ جن اٽڪل هڪ لک.....مسلمانن جي جماعت سان آخري حج ادا ڪيو.
	(الف) 24 هزار (ب) 44 هزار (ج) 20 هزار (ڊ) 20 هزار
5.	سندس ٻنهي ڪلھن جي وچ تي نبوت جي.....هوندي .
	(الف) مڙهر (ب) نشاني (ج) لڪير (ڊ) لڪير
6.	حضرت امام جعفر صادق ؑ وقت جا وڏا عالم ۽.....هئا.
	(الف) فقيه (ب) مولوي (ج) سخي (ڊ) سخي
7.اهو لفظ آهي جيڪو جرڻي ۾ اسم جي بدران ڪم اچي.
	(الف) ضمير (ب) فعل (ج) ظرف (ڊ) ظرف
8.اهو لفظ آهي جيڪو سڌ ڪرڻ جي ڪم اچي يا ان مان ڪا حالت ظاهر ٿئي.
	(الف) حرف ندا (ب) حرف جر (ج) حرف جر (ڊ) حرف جر
9.	قوم کي اتحاد، تنظيم ، يقين محڪم ۽.....ضرورت آهي.
	(الف) عمل پيهر (ب) قوت فيصلا (ج) قوت ارادي (ڊ) قوت ارادي
10.	قوم جي ترقي ۽ تنزل، ڪمال ۽ زوال جو دارومدار.....تي آهي.
	(الف) اتحاد (ب) نظم و ضبط (ج) يقين و محڪم (ڊ) يقين و محڪم

Section-V (Urdu)

- سوال ۱۔ مندرجہ ذیل میں سے کسی بھی ایک عنوان پر مضمون لکھیں۔
 1. شجر کاری مہم 2. سائنس رحمت یا رحمت 3. کتب خانوں کی اہمیت
 سوال ۲۔ پرنسپل کے نام موہن جو دڑو کے مطالعاتی دورے کے لیے درخواست لکھیں۔ یا

اپنے بھائی کے نام خط لکھیں جس میں اسے وقت کی پابندی کرنے کی تلقین کریں۔
 درج ذیل الفاظ و محاورات کو اپنے جملوں میں استعمال کریں۔

شرمندہ	خیالت	
اعزاز	لاجواب کر دینا	
رسم	--	--

درج ذیل الفاظ کے متضاد لکھیں۔

اندرون	اباد	
اجالا	حامی	
ترقی	--	--

سوال ۳۔

نوٹ: درست جواب کا انتخاب کریں اور درست جواب کے خالے میں لکھیں۔	درست جواب
1. فتح مکہ ————— بحری میں ہوئی۔	
(الف) ۸ (ب) ۹ (ج) ۱۰	
2. عید الاضحیٰ کس نبی کی یادگار ہے؟	
(الف) حضرت ابراہیم (ب) حضرت اسماعیل (ج) حضرت موسیٰ	
3. اردو کس زبان کا لفظ ہے؟	
(الف) فارسی (ب) عربی (ج) ترکی	
4. آبادی کے لحاظ سے پاکستان کا سب سے بڑا صوبہ کون سا ہے؟	
(الف) پنجاب (ب) سندھ (ج) بلوچستان	
5. کلیم اللہ کس نبی کا لقب ہے؟	
(الف) حضرت ابراہیم (ب) حضرت محمد مصطفیٰ ﷺ (ج) حضرت موسیٰ	
6. اسم معرفہ میں — کا ذکر ہوتا ہے۔	
(الف) خاص نام (ب) عام نام (ج) ہی جان	
7. پاکستان کے موجودہ ارمی چیف کا نام کیا ہے؟	
(الف) جنرل قمر جاوید باجوہ (ب) جنرل عاصم منیر (ج) جنرل فیض حمید	
8. 'علم' کی جمع — ہے۔	
(الف) علام (ب) علوم (ج) معلوم	
9. 'زوال' کی ضد — ہے۔	
(الف) عروج (ب) پستی (ج) بلندی	
10. کسے نظم یا غزل کے آخری شعر کو — کہا جاتا ہے۔	
(الف) مقطع (ب) مصرع ثانی (ج) مطلع	

Section-II (Computer Science)

Note: Attempt any four questions from the following

Q: 01 Define the term Computer.

Q: 02 What is the difference between Application Software and System Software?

Q: 03 Define Artificial Intelligence.

Q: 04 List any five input and five output devices.

Q: 05 What is Computer Program?

Note:- Choose the correct option and write it in Correct Option's Column.									Correct Option
1.	The device that converts softcopy into hardcopy is:								
	a	Printer	b	Plotter	c	Scanner	d	Barcode reader	
2.	The volatile memory								
	a	losses contents as the power is disconnected	b	manages hardware resources	c	possesses large storage	d	is permanent	
3.	Media players are:								
	a	Business software	b	Education software	c	Entertainment software	d	Productivity software	
4.	The device that converts hard copy into softcopy is:								
	a	Printer	b	Plotter	c	Scanner	d	Barcode reader	
5.	A computer is an/a _____ data processing machine.								
	a	Electronic	b	Mechanical	c	Electromechanical	d	Electrical	
6.	Work done by the machine is called _____.								
	a	Input	b	Output	c	Input/ Output	d	Data	
7.	The programs that are generally installed to manage and maintain overall computer resources is:								
	a	operating system	b	utility program	c	language translator	d	device driver	
8.	Modern languages use								
	a	compiler	b	interpreter	c	convertor	d	assembler	
9.	A collection of wires connecting the CPU with main memory that is used to identify particular locations is:								
	a	control bus	b	data bus	c	address bus	d	memory bus	
10.	Work done on the machine is called _____.								
	a	Input	b	Output	c	Input/ Output	d	Data	