

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	
2	Deficiency of vitamin – K cause							
	a	Rickets	b	Anemia	c	Scurvy	d	
3	Which is an example of organelle?							
	a	Mitochondria	b	Protoplasm	c	Cytoplasm	d	
4	The sexual organ of plant is _____.							
	a	Flower	b	Fruit	c	Seed	d	
5	Total number of bio element is _____.							
	a	16	b	14	c	15	d	
6	The movement of organic materials (Food) take place through.							
	a	Xylem	b	Vessels	c	Tracheid	d	
7	The area where living organism interact with non living components of the environment are called ____.							
	a	Population	b	Community	c	Ecosystem	d	
8	Which of these are involved in the clotting of blood?							
	a	Platelets	b	Hemoglobin	c	Albumin	d	
9	In Human heart blood returning from lungs first drains into the.							
	a	Left atrium	b	Left ventricle	c	Right Atrium	d	
10	Unicellular is _____.							
	a	Rabbit	b	Euglena	c	Horse	d	

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	
2.	The least count of micrometer screw gauge is?							
	a	0.01mm	b	0.1mm	c	1mm	d	
3.	What is a S.I unit of velocity?							
	a	Meter	b	Second	c	Meter/second	d	
4.	Which one is a vector quantity?							
	a	Mass	b	Weight	c	Time	d	
5.	Which type of wave cannot travel in vacuum?							
	a	Sound wave	b	Radio wave	c	Micro wave	d	
6.	The fundamental unit of length is S.I units is							
	a	Meter	b	Kilometer	c	Yard	d	
7.	10^9 shows							
	a	Mega	b	Giga	c	Kilo	d	
8.	The value of g is?							
	a	$6.8m/sec^2$	b	$7.8m/sec^2$	c	$8.8m/sec^2$	d	
9.	The units of time , mass and length are:							
	a	Fundamental Units	b	Derived Units	c	Supplementary Units	d	
10.	The distance between mean position and extreme position is called							
	a	Displacement	B	Amplitude	C	equilibrium	d	

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

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

نوٽ: درست جواب چونڊي لکو ۽ درست جواب واري خاني ۾ لکو.	ڏُرست جواب
1. آءُ اڄوڪي ڏينهن.....جي سمورين رسمن کي پنهنجي پيرن هيٺان لتاڙيان ٿو.	(الف) جاهليت (ب) گمراهي (ج) پراڻي
2. عورتن جي معاملي ۾.....ڊڄندا رهو.	(الف) خداوند تعاليٰ (ب) رشتيدارن (ج) نبين
3. مومن عزت وارو ۽.....ذليل آهي .	(الف) فاجر (ب) فاسق (ج) 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
5. سندس پنهي ڪلهن جي وچ تي نبوت جي.....هوندي .	(الف) مَهر (ب) نشاني (ج) لڪير
6. حضرت امام جعفر صادق عليه السلام وقت جا وڏا عالم ۽.....هئا.	(الف) فقيه (ب) مولوي (ج) سخي
7. اهو لفظ آهي جيڪو جملي ۾ اسر جي بدران ڪر اچي.	(الف) ضمير (ب) فعل (ج) ظرف
8. اهو لفظ آهي جيڪو سڏ ڪرڻ جي ڪر اچي يا ان مان ڪا حالت ظاهر ٿئي.	(الف) حرف ندا (ب) حرف جملو (ج) حرف جر
9. قوم کي اتحاد، تنظيم، يقين محڪم ۽.....ضرورت آهي.	(الف) عمل پيهر (ب) قوت فيصلا (ج) قوت ارادي
10. قومن جي ترقي ۽ تنزل، ڪمال ۽ زوال جو دارومدار.....تي آهي.	(الف) اتحاد (ب) نظر و ضبط (ج) يقين و محڪم

سوال-۱ مندرجہ ذیل میں سے کسی بھی ایک عنوان پر مضمون لکھیں۔

1- شجرکاری مہم 2- سائنس رحمت یا رحمت 3- کتب خانوں کی اہمیت

سوال-۲ پرنسپل کے نام موہن جوڈو کے مطالعاتی دورے کے لیے درخواست لکھیں۔ یا

اپنے بھائی کے نام خط لکھیں جس میں اسے وقت کی پابندی کرنے کی تلقین کریں۔

سوال-۳ درج ذیل الفاظ و محاورات کو اپنے جملوں میں استعمال کریں۔

شرمندہ	خیانت	
اعزاز	لاجواب کر دینا	
رسم	--	--

سوال-۴ درج ذیل الفاظ کے متضاد لکھیں۔

اندرون	آباد	
أجالا	حالی	
ترقی	--	--

دُرست جواب	نوٹ: درست جواب کا انتخاب کریں اور درست جواب کے خانے میں لکھیں۔				
	1. فتح مکہ.....جبری میں ہوئی۔				
	(الف)	۸	(ب)	۹	(ج)
	2. عید الاضحیٰ کس نبی کی یادگار ہے؟				
	(الف)	حضرت ابراہیمؑ	(ب)	حضرت اسماعیلؑ	(ج)
	3. اردو کس زبان کا لفظ ہے؟				
	(الف)	فارسی	(ب)	عربی	(ج)
	4. آبادی کے لحاظ سے پاکستان کا سب سے بڑا صوبہ کون سا ہے؟				
	(الف)	پنجاب	(ب)	سندھ	(ج)
	5. کلیم اللہ کس نبی کا لقب ہے؟				
	(الف)	حضرت ابراہیمؑ	(ب)	حضرت محمد مصطفیٰ ﷺ	(ج)
	6. اسم معرفہ میں.....کا ذکر ہوتا ہے۔				
	(الف)	خاص نام	(ب)	عام نام	(ج)
	7. پاکستان کے موجودہ آرمی چیف کا نام کیا ہے؟				
	(الف)	جنرل قمر جاوید باجوہ	(ب)	جنرل حاصم منیر	(ج)
	8. دُلم، کی جمع.....ہے۔				
	(الف)	علام	(ب)	علوم	(ج)
	9. 'زوال' کی ضد.....ہے۔				
	(الف)	عروج	(ب)	پستی	(ج)
	10. کس نظم یا غزل کے آخری شعر کو.....کہا جاتا ہے۔				
	(الف)	مقطع	(ب)	مصرع ثانی	(ج)