CANTE OF SALES

Q-1

CADET COLLEGE FATEH JANG

Entry Test Sample

(10)

Class 1st Year Paper: English Time: 40 Min Marks: 50

Fill in the blanks with correct forms of verb:

i.	I have	a letter.	(Write)		
ii.	I shall	to bazaar.	(Go)		
iii.	He	up early in the morning.	(Get)		
iv.	They are	on the road.	(Walk)		
٧.	It is	·	(Rain)		
vi.	It has been	•	(Rain)		
vii.	We are	by our Principal.	(Tell)		
viii.	She had	to Pindi.	(Go)		
ix.	You will be	a letter.	(Write)		
х.	What has happened,	a book?	(Read)		
ii. iii. iv. v. (b) i. iii. iii. iii. iv. v.	I shall say, "They are good students". She said, "God is one". He said, "Not to go to the sun". She said, "Honesty is the best policy". Change into passive voice. She will eat an apple. I wrote a letter. We are playing cricket. He has eaten the meal. They are reading books				
Q-3	Explain and make paraphrase of the following stanza. Brave men who work while others sleep, Who dare while others fly, they build a nation's pillars deep, And lift them to the sky. OR Use the following worlds in your own sentences. Efficient, Opinion, Blessing, Delegate, Memory				
Q-4 i.	Write a comprehensi My last day at school.	ve essay of approximatel ii. Life in a village.	y 150 words on ONE of given topic.	(10)	
Q-5	•	the following sentences ii ت ہے۔ 4۔ شکے سے بارش ہور ہی ہے۔ 5۔ سیل رہاہے۔9۔ وہ لاہور حب ئے گی۔	nto English. 2-وہ کھانا کھائے گلہ 3- تندر سی ہز ار نعمہ تھی۔ 7-وہ پھی کھیل چکے ہیں۔ 8-وہ فسٹ بال کھ	(10) 1 ـ وه خط لکھتا ہے۔ 6 _ گاڑی پینٹی چیکی ^ا	



CADET COLLEGE FATEH JANG

Entry Test Sample

Class 1st Year Paper: Chemistry Time: 40 Min Marks: 50

Q-1	Select the correct option.				(15)
(i)	The unit of equilibrium Cons	stant is?			
	(a) Mol dm ⁻³	(b) Mol dm ³	(c)	Mol dm ⁻²	(d) None of these
(ii)	Which one is the strongest A				
	(a) CH₃COOH	(b) H ₂ SO ₄	(c)	НСООН	
(iii)	Acid have taste	e?			
	(a) Sour	(b) Bitter	(c)	Sweet	(d) None of these
(iv)	Which acid are used for the	preservation of food?			
	(a) Acetic acid	•			
(v)	Which one is the noble gas	in the periodic table?			
	(a) Fluorine	(b) chlorine	(c)	bromine	(d) Neon
(vi)	Which one is the formal of C	Chloroform?			
	(a) CH₃CI	(b) CH ₂ Cl ₂	(c)	CHCl ₃	(d) CH_3
(vii)	Which one of the following is	s the non metal?			
	(a) Glass	(b) Wood	(c)	Nitrogen	(d) Hydrogen
(viii) Which one is the father of ch	nemistry?			
	(a) Jabir-bin-Hayan	(b) Arustu	(c)	Ibne-Seena	(d) Marie Currie
(ix)	Which one Carry Positive C	harge?			
	(a) Electron	(b) Proton	(c)	Neutron	(d) Anion
(x)	Which element has highest	electro negativity?			
	(a) Na	(b) Mg	(c)	С	(d) F
(xi)	The study of composition ar	nd structure of matter is:			
	(a) Chemistry	(b) Physics	(c)	Biology	(d) Math
(xii)		nd their derivatives:			
	(a) Inorganic chemistry	(b) Organic	(c)	Physical	(d) None of these
(xiii	-	of:			
	(a) C+M	(b) C+O	(c)	C+H	(d) N+O
(xiv		-			
	(a) Amu	(b) N _A	(c)	K _c	(d) K _f
(xv)	-	•			
	(a) Chemical formula	(b) Symbol	(c)	Molecular formula	(d) Empirical formula
0.0	Write dayin the chamical f	ammeria of the fallows			(40)
Q-2	Write down the chemical for	ormula of the followi	ng:	•	(10)
(a)	Washing Soda	(b) Table Salt	(c)	Methane	
(d)	Calcium Carbonate	(e) Hydrogen Iodide			
		-			
Q-3	Attempt the following short	t questions:			(10)
a)	Define Organic chemistry.				
b)	Write down properties of Ac	cids?			
c)	Define Reversible reaction	with example?			
d)	Define Acid rain.				
e)	What is the difference between Alkane and Alkene?				
_		_			
Q-4	Answer any three of the fol				$(5 \times 3 = 15)$
a)		What is Soft and hard water?			
b)	Define Ionization energy and write its trends?				
c)	What is isotope? Write the is				
d)	Define Arrhenius Acid and E	sase with example?			



CADET COLLEGE FATEH JANG

Entry Test Sample

Class 1st Year Paper: Physics Time: 40 Min Marks: 50

Q-1	Write the correct one.	$(10 \times 1 = 10)$					
i.	The quantity of motion of a body is called						
	(a) Momentum (b) work (c) velocity	(d) inertia					
ii.	Distance covered in unit time is called (a) Speed (b) velocity (c) acceleration	(d) displacement					
iii.	The ratio between perpendicular and base is	(u) displacement					
	(a) Sinθ (b) Cosθ (c) tanθ	(d) Cosecθ					
iv.	The energy possessed by a body due to its motion is called	/ D					
V.	(a) P.E (b) K.E (c) chemical energy The unit of torque is	(d) gravitational energy					
٧.	(a) Joule (b) Watt (c) Newton	(d) Pascal					
vi.	A wave move on a slinky with frequency of 4Hz and wavelength of 0.4	m. What is the speed of					
	wave?						
vii.	(a) 2.6ms ⁻¹ (b) 1.6ms ⁻¹ (c) 3.6ms ⁻¹ What is the power rating of a lamp connected to a 12V source when it	(d) 1.2ms ⁻¹					
VII.	(a) 4.8 w (b) 60 w (c) 30 w	(d) 14.5 w					
viii.	Least count of Vernier caliper is?	· /					
	(a) 0.1cm (b) 0.01mm (c) 1cm	(d) 0.01cm					
ix.	A car is moving at the speed of 60 Kmh ⁻¹ . Its speed express in ms ⁻¹ is: (a) 17ms ⁻¹ (b) 20ms ⁻¹ (c) 16.6ms ⁻¹	(d) 15.6ms ⁻¹					
Х.	The S.I unit of stress is :	(d) 10.01110					
	(a) Nm (b) Nm ⁻² (c) Nm ⁻¹	(d) N					
Q-2	Write short answers to the following questions:	$(10 \times 2 = 20)$					
i)	Define Translatory motion? Write its types.						
ii)	Differentiate between mass and weight?						
iii)	Define force. Write its unit.						
iv)	Write down the equivalent resistance of parallel and series combinatio	n of resistor?					
v)	Define head to tail rule for addition of vector?	Define head to tail rule for addition of vector?					
vi)	Differentiate between concave and convex lens.						
vii)	What is capacitance of capacitor? Write its unit.						
viii)	Define laws of refraction of light?						
ix)	Define nuclear fission reaction?						
x)	Define Electromagnetic waves with examples?						
Q-3	Write the answers of any four of the following questions. $(4 \times 5 = 20)$						
i.	Prove that graphically 2as= V _f ² -V _i ²						
ii.	Prove that mass attached to a spring executes simple harmonic motion?						
iii.	A current of 6 mA is flowing through a wire for 2 minute. What is the charge flowing through the						
	wire.						
iv.	Define and Prove F=ma.						
٧.	Explain CRO in detail.						
vi	What is electroscope? How can you detect the presence of charge by	using electroscope?					

CADET COLLEGE FATEH JANG

Entry Test Sample

Class 1st Year Time: 40 Min

(For Pre-Engineering & ICS)

Paper: Math Marks: 50

Q-1 Choose the correct answer.

(10)

- (i) The method of solving quadratic equation is.
 - a. 1

b. 2

c. 3

d. 4

- (ii) If a:b the first term 'a' is called.
 - a. antecedent
- b. consequent c. Both a & b
- d. None

- (iii) Median of 59, 68, 81, 78, 51=
 - a. 59
- b. 68
- c. 78
- d. 51
- (iv) A circle touching three sides of a triangle is called.
 - a. In Circle
- b. Locus
- c. Arc
- d. Circle

- (v) If 3: 5x: : 2:4 then x=
 - a. $\frac{6}{5}$
- b. $3/_{5}$
- c. $\frac{4}{5}$
- d. $\frac{4}{5}$

Note: Solve any four questions from the following.

(4 x10=40)

- Q-2 a) $2-x^2=7x$ solve by quadratic formula.
 - b) $x^{2/3} + 54 = 15x^{1/3}$ solve the equation.
- Q-3 a) $(2x-\frac{1}{2})^2 = 9/4$ solve.
 - b) Simplify $\left[\frac{x^{-2} y^{-1} z^{-4}}{x^4 y^{-3} z^0}\right]^{-3}$
- Q-4 a) Perform the indicated operation and simplify $\frac{15}{2x-3y}$ $\frac{4}{3y-2x}$
 - b) Factorize x³-y³-x+y
- Q.-5 Find the value of a+b+c when $a^2 + b^2 + c^2 = 14$ and ab +bc+ ca=15.
- Q.-6 a) Find the solution set of equation and check. $2\sqrt{y} 3 = 1$
- b) $A = \{6,7,8\} B = \{7,8,9\} C = \{7,8,11,12\} \text{ find } A \cup (B \cup C) = (A \cup B) \cup C$

COLLEGE PARTY.

Q-3

1)

2) 3)

4)

Answer any two of the following:

Discuss any five branches of biology?

Write a detailed note on global warming?

Draw the labeled diagram of heart?

Discuss the Watson and Crick model of DNA in detail?

CADET COLLEGE FATEH JANG

Entry Test Sample

Class 1st Year Paper: Biology Time: 40 Min Marks: 50 (For Pre-Medical) **Q-1** Choose the correct option. (20)(i) Tissues are organized to form? (a) Organ (b) Organ system (c) Both The phenomena in which two different generations alternate each other is called? (ii) (a) Alternation of generation (b) Generation (c) None The study of fungi is called? (iii) (b) Paraistology (a) Mycology (c) Both The process in which diploid chromosomes number is reduced to haploid is called? (iv) (a) Meiosis (b) Mitosis (c) None The tube between Kidney and Urinary bladder is called: (v) (a) Urethra (b) Renal Tubule (c) Ureter Which one of the following is Abiotic? (vi) (a) Producer (b) Herbivores (c) Oxygen The weight of human kidney is: (vii) (a) 125gm (b) 120gm (c) 130gm James Watson and Francis Cick proposed the structure of DNA in: (viii) (a) 1963 (b) 1933 (c) 1953 The flow of molecules from higher concentration to lower concentration? (ix) (a) Diffusion (b) Effusion (c) Both The study of animal is called? (x) (b) Botany (a) Zoology (c) Both Most of the Gaseous in a leaf occurs through? (xi) (a) Stomata (b) General Surface (c) Lenticels The core temperature of human body remains at about: (xii) (c) 37°C (b) 35°C (a) 38°C (xiii) Which is responsible for puberty and voice pitch lowering in male? (a) Estrogen (b) Testosterone (c) Progesterone (xiv) These are the unit of inheritance? (a) Alleles (b) Phenotype (c) Genotype The type of symbiotic association in which one partner get benefits while other is not benefited nor (xv) harmed, is called: (a) Mutualism (b) Parasitism (c) Commensalism Dengue virus attacks on? (xvi) (a) RBCs (b) WBCs (c) Platelets (xvii) Bio is a? (b) Greek word (a) Latin word (c) None Location of gene on chromosome is called? (xviii) (a) Locus (b) Docus (c) None (xix) Conversion of nitrogen gas into nitrate is called? (a) Nitrogen fixation (b) oxygen fixation (c) None (xx)The microscopic study of tissues is called: (a) Cell Biology (b) Histology (c) Embryology Attempt any five of the following. **Q-2** $(2 \times 5 = 10)$ Write the names of nitrogenous bases present in DNA and RNA? Discuss Biotechnology? Give example. ii. **Define Homeostasis?** iii. Write the part of brain? iv. Differentiate between Cartilage and Bone with example? V. Discuss self pollination? vi. What is insulin? Give its function in human body? vii.

(10+10=20)

Cannege Wilth

CADET COLLEGE FATEH JANG

Entry Test Sample

Class 1st Year Time: 40 Min

(For ICS)

Paper: Computer Science

Marks: 50

Q-1	Choose the corre	ect option.			(10)	
i.	Which of the following	ng statement is used to find	an array?			
	(a) INPUT	(b) READDATA	(c) ON-ERROR-GO	ΓΟ (d) No	one of these	
ii.	Dimension statemen	nt uses the keyword				
	(a) DMS	(b) DS	(c) DIM	(d) DN	Л	
iii.	Which of the following is not valid subscript?					
	(a) NUM (100)	(b) A (2)	₍ c) B (4)	(d) A ((-2)	
iv.	Which of the following is not a logical operation?					
	(a) AND	(b) OR	(c) NEITHER	(d) NC	DT	
V.	FORNEXT is us	sed to implement				
	(a) Iteration	(b) Selection	(c) Sequence	(d) All	of these	
vi.	The technique "divided and conquer" is used to solve:					
	(a) Simple Problems(b) Complex Problems (c) Large Problem		(c) Large Problems	(d) Co	mplex and Large Problen	กร
vii.	All of the following in GW-BASIC are Keyword except:					
	(a) IF	(b) THEN	(c) ELSE	(d) MA	ARKS	
viii.	Which of the following Basic command is used to remove file from the disk?					
	(a) KILL	(b) DELETE	(c) CLS	(d) EN	ID	
ix.	Which of the following BASIC statement is used to define a function?					
	(a) DEF	(b) DEF FN	(c) DEF FUN	(d) FU	J DEF	
х.	The circle statement	can also be used to draw:	1			
	(a) Line	(b) Box	(c) Ellipse	(d) Ps	et	
Q-2	Attempt any twelv	ve of the following.			(12x2=24)	
1.	What is computer? V	Write name of any two type	es of computer.	2.	Define flow chart.	
3.	Write down the use of comma (,) and semi colon (;) in PRINT statement.					
4.	Differentiate between CLEAR and CLS command.					
5.	What is ON – GOTO	statement?	6. Wha	at is meant	t by DIM statement?	
7.	Differentiate between 1-D and 2-D array.		8. Wha	What is meant by transfer of control?		
9.	What are Keywords? Give some examples.		10. Wha	What is Built-in function? Give examp		
11.	What are sub-routines?		12. Wha	What is IFTHEN statement?		
13.	What is meant by se	equential file?	14. Defi	ne Graphi	cs?	
15.	What is word proces	sing?				
Q-3	Answer any two of	f the following:			(8 + 8 = 16)	
i.	Write rules for namir	ng variables in BASIC.				
ii.	Define debugging?	Write types of errors in def	tail?			
iii.	Define algorithm? De	escribe strategy for develo	ping algorithm?			

What are operators? Explain Arithmetic operators in detail?

iv.