

**CADET COLLEGE MAMAD GAT**  
**ENTRY TEST SAMPLE PAPER FOR CLASS - XI**  
**PAPER: ENGLISH**

**Maximum Marks: 50**

**Time: 50 Minutes**

**Name: \_\_\_\_\_**

**Roll No: \_\_\_\_\_**

**Q1: Do as directed.**

**(10)**

- i. "Where do you live", asked the stranger. (change the narration)
- ii. Life is simple from worries free. (arrange the sentence)
- iii. My teacher often says to me, "if you don't work hard, you will fail". (change the narration)
- iv. He draws \_\_\_\_\_ his parents for his educational expenses. (put the preposition)
- v. These news are true. (correct the sentence)
- vi. He insisted \_\_\_\_\_ going there. (add preposition)
- vii. I walk five kilometers. (change this sentence into future perfect continuous tense)
- viii. She is an European. (correct the sentence)
- ix. Do you know his father? (change the voice)
- x. Ali read the newspaper. (change into interrogative)

**Q2: Translate into English.**

**(05)**

۱. وہ اپنے لؤل کا سجا ہے .
۲. چونہی وہ آٹا لوگ اس پر ٹوٹ پڑے تھے .
۳. اس نے مجھ سے کھانا پکوا یا .
۴. کیا تو اور دو چار بوتے ہیں ؟
۵. استاد نے سبق پڑھا یا .

**Q3: Use any five (5) pair of words in your own sentences.**

**(05)**

- |                  |                   |                       |
|------------------|-------------------|-----------------------|
| i. Cannon, Canon | ii. Dual, Duel    | iii. Loose, Lose      |
| iv. Raise, Raze  | v. Insure, Ensure | vi. Virtual, Virtuous |

**Q4: Translate the given sentences into Urdu.**

**(05)**

- i. Lahore is an ancient and historical city.
- ii. Signs of anxiety disappeared from his face.
- iii. His mausoleum also lies in this city.
- iv. Green grass grew every season on the banks of the stream.
- v. The consumption of oil industry and agriculture cannot be curtailed.

**Q5: Write a letter to your friend telling him "why I want to join Cadet College Mamad Gat?" (10)**

**Q6: Write an essay (200-250 words) on Environmental Pollution, highlighting its causes effects and suggestions to control pollution. (15)**

**CADET COLLEGE MAMAD GAT**  
**ENTRY TEST FOR CLASS – XI**  
**PAPER: CHEMISTRY**

Maximum Marks: 50

Time: 50 minutes

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

File # \_\_\_\_\_

Subject \_\_\_\_\_

Time 20 minutes

**Q1: Choose the correct option.**

**(20)**

- i. A liquid boils when its vapour pressure becomes equal to  
☐ 760 cm Hg    ☐ 1 pascal    ☐ 0.1 atm    ☐ 101.325 kilo pascal
- ii. Among the alkali metals, the metals with the highest ionization potential is  
☐ Na    ☐ Li    ☐ Rb    ☐ Cs
- iii. Tendency of a metal to lose electron is  
☐ Electronegativity    ☐ Electropositivity    ☐ Electrolysis    ☐ None
- iv. The highest energy state of matter is  
☐ Solid    ☐ Liquid    ☐ Gas    ☐ Plasma
- v. When the total number of moles of reactant is equal to the total number of moles of product in a balanced chemical equation, the unit of Kc is  
☐ Moles dm<sup>3</sup>    ☐ Mole dm<sup>-2</sup>    ☐ Mole dm<sup>-3</sup>    ☐ No units
- vi. Which one of the following is a basic salt?  
☐ (NH<sub>4</sub>)<sub>2</sub>PO<sub>4</sub>    ☐ NaHCO<sub>3</sub>    ☐ Cu(OH)Cl    ☐ KHSO<sub>4</sub>
- vii. Which of the following is not an organic compound?  
☐ Drugs    ☐ CO    ☐ Dyes    ☐ Paints
- viii. Which of the following is the most abundant natural gas?  
☐ Ethane    ☐ Propane    ☐ Methane    ☐ None
- ix. R-O-H is the general formula of  
☐ Ether    ☐ Alcohol    ☐ Aldehydes    ☐ Ketones
- x. Alkynes undergo which type of reactions across the triple bond?  
☐ Substitution    ☐ Addition    ☐ Elimination    ☐ None
- xi. Which is the largest layer of atmosphere by mass?  
☐ Troposphere    ☐ Thermosphere    ☐ Stratosphere    ☐ Mesosphere
- xii. Global warming is caused by the increase of \_\_\_\_\_ in atmosphere  
☐ CO<sub>2</sub>    ☐ O<sub>2</sub>    ☐ H<sub>2</sub>    ☐ N<sub>2</sub>
- xiii. Which one of following can be broken down into simpler substances?  
☐ Ammonia    ☐ Oxygen    ☐ Sulphur    ☐ Iron filling
- xiv. Which one is oligosaccharides?  
☐ Glucose    ☐ Fructose    ☐ Sucrose    ☐ Galactose
- xv. Electron in its ground state does not  
☐ Spin    ☐ Revolve    ☐ Radiate energy    ☐ Reside in or out
- xvi. Which one is the lightest?  
☐ A hydrogen atom    ☐ An alpha particle    ☐ Proton    ☐ An electron
- xvii. The polymer of amino acid is  
☐ Vitamin    ☐ Proteins    ☐ Lipids    ☐ Carbohydrates
- xviii. Which one of the following is secondary pollutants?  
☐ Carbon dioxide    ☐ Acid rain    ☐ SO<sub>2</sub>    ☐ NO<sub>2</sub>
- xix. Which of the following would have the largest ionization energy?  
☐ Na    ☐ Al    ☐ H    ☐ He
- xx. Shielding effect is due to  
☐ Neutron    ☐ Proton    ☐ Proton & neutron    ☐ Electron

**SECTION – B**

**Time 30: Minutes**

**Q2: Attempt all questions**

**(30)**

- i. a) Write the statement of law of Mass Action.  
 b) Define reversible and irreversible reactions with example.
- ii. Give reasons why Cl<sub>2</sub> has non polar covalent bonds while HCl has polar covalent bonds?
- iii. Calculate the pH and POH of 0.001 M HNO<sub>3</sub> solution?
- iv. Why fire starts burning on the surface of water, when a piece of sodium metals is put into it? Write chemical reaction.
- v. Describe some of the sources and uses of carbohydrates.
- vi. Define electronic configuration. Write the electronic configuration of the following.  
 a) Mg<sub>12</sub>    b) Ca<sub>20</sub>    c) Fe<sub>26</sub>    d) K<sub>19</sub>

**CADET COLLEGE MAMAD GAT (MOHMAND)**  
**SAMPLE PAPER ENTRY TEST FOR CLASS - XI**  
**PAPER: BIOLOGY**

Maximum Marks: 50

Time: 50minutes

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

File # \_\_\_\_\_ Subject \_\_\_\_\_ Time 20minutes

**Q1: Fill in the blanks. (05)**

- i. Duplication of DNA, usually prior to cell division is called \_\_\_\_\_.
- ii. The symbiotic interaction in which both participants benefit is called \_\_\_\_\_.
- iii. \_\_\_\_\_ is the diffusion of water through a differentially permeable membrane.
- iv. \_\_\_\_\_ is the process by which offspring are produced without egg fertilization.
- v. Cells in the testes that produce testosterone are called \_\_\_\_\_.

**Q2: Choose the correct option. (15)**

- i. A group of individuals, belonging to the same species living in the same place, at the same time is  
☐ Community ☐ Population ☐ Ecosystem ☐ Niche
- ii. The process of eating and being eaten is called.  
☐ Food web ☐ Ecology ☐ Food chain ☐ Conservation
- iii. The germination, in which the cotyledons remain underground is  
☐ Epigeal germination ☐ Hypogeal ☐ Budding ☐ Binary fission
- iv. Receptors are the organs in the body, which receive.  
☐ Effectors ☐ Brain ☐ Stimuli ☐ CNS
- v. \_\_\_\_\_ is the removal of extra water through small pores at the tips of the leaves.  
☐ Thermo regulation ☐ Guttation ☐ Transpiration ☐ Homeostasis
- vi. Which mosquito can transmit plasmodium in human beings?  
☐ Anopheles ☐ Culex ☐ Aedes ☐ All
- vii. Slime molds belong to phylum \_\_\_\_\_.  
☐ Protozoa ☐ Tracheophyta ☐ Mycota ☐ Chordata
- viii. Which is a molecule containing DNA from two different organisms?  
☐ Vector DNA ☐ DNA clone ☐ Plasmid DNA ☐ Recombinant DNA
- ix. The process in which nitrates and nitrites are reduced to nitrogen gas by bacteria is \_\_\_\_\_.  
☐ Assimilation ☐ Denitrification ☐ Ammonification ☐ Nitrification
- x. During microscopy two \_\_\_\_\_ lenses are used.  
☐ Convex ☐ Concave ☐ Convex & concave ☐ All
- xi. The muscles which are unstriated & spindle shape are \_\_\_\_\_.  
☐ Cardiac muscles ☐ Smooth muscles ☐ Skeletal muscles ☐ All
- xii. Crossing over occurs between \_\_\_\_\_.  
☐ Chromatids ☐ Sister chromatids ☐ Daughter chromatids ☐ Non homologous chromatids
- xiii. The addition of single chromosome in diploid set is called \_\_\_\_\_.  
☐ Nullisomy ☐ Trisomy ☐ Tetrasomy ☐ Triploidy
- xiv. Psilocybin is taken from \_\_\_\_\_.  
☐ Cactus ☐ Marijuana ☐ Mushroom ☐ Poppy
- xv. In a dihybrid cross the genotypically ratio of green & round seed is \_\_\_\_\_.  
☐ 3:1 ☐ 2:1 ☐ 1:1 ☐ 4:1

**SECTION - B**

**Time 30:Minutes**

**Q3: Attempt any six(6) questions. (30)**

- i. Draw neat and labeled diagram of human respiratory system.
- ii. Differentiate between producers and decomposers.
- iii. Draw the checker board of Mendel law of independent assortment.
- iv. List down the endangered species of Pakistan and what are the reasons behind their population decrease?
- v. Justify the way nervous system coordinate complex movement of hands to write alphabets.
- vi. Why pea was the most suitable plant for Mendel's experiments?
- vii. What happened if glucose concentration is high in the blood?



**CADET COLLEGE MAMAD GAT(MOHMAND)**  
**SAMPLE PAPER ENTRY TEST FOR CLASS – XI**

**PAPER: PHYSICS**

**Maximum Marks:50**

**Time: 50minutes**

**Name: \_\_\_\_\_**

**Roll No: \_\_\_\_\_**

**File # \_\_\_\_\_ Subject \_\_\_\_\_ Time 20 minutes**

**Q1; Choose the correct option.**

**(20)**

- i. When the area of wire is double and length becomes half then resistivity will be.  
☐ Double ☐ 4-times ☐ Remain same ☐ None
- ii. The unit of temperature co-efficient of resistance is \_\_\_\_\_.  
☐  $K^{-1}$  ☐  $V K^{-1}$  ☐  $V^{-1} K^{-1}$  ☐  $V K^{-2}$
- iii. The least count of Vernier Caliper is \_\_\_\_\_.  
☐ 0.01cm ☐ 0.001cm ☐ 0.1cm ☐ Both a & b
- iv.  $IN =$  \_\_\_\_\_.  
☐  $Kgmsec^{-2}$  ☐  $Kgm^{-1}sec$  ☐  $Kgmsec^{-1}$  ☐  $Kg m^{-1}sec^{-1}$
- v. According to 2<sup>nd</sup> condition of equilibrium \_\_\_\_\_.  
☐  $\sum \vec{F} = 0$  ☐  $\sum \vec{T} = 0$  ☐  $\sum \vec{W} = 0$  ☐  $\sum P = 0$
- vi. Kilowatt hour is the unit of \_\_\_\_\_.  
☐ Power ☐ Energy ☐ Potential difference ☐ None
- vii. Alpha ( $\alpha$ ) particle having \_\_\_\_\_ charge?  
☐ Double positive ☐ Negative ☐ No ☐ Double negative
- viii. The \_\_\_\_\_ of the CRO coated with fluorescent salt.  
☐ Grid ☐ Filament ☐ Screen ☐ Deflecting plates
- ix. The S.I derived unit of radioactivity is \_\_\_\_\_.  
☐ Becquerel (Bq) ☐ eV ☐ Wattsec<sup>-1</sup> ☐  $Jm^{-1}$
- x. The unit of electric field intensity  $E$  is \_\_\_\_\_.  
☐  $NC^{-1}$  ☐  $NC^{-2}$  ☐  $NC$  ☐  $NC^2$
- xi. If we increase the voltage applied to the capacitor, then capacitance of capacitor will be \_\_\_\_\_.  
☐ Increased ☐ Decreased ☐ Remain same ☐ All
- xii. A device which converts electrical energy into mechanical energy is called \_\_\_\_\_.  
☐ A. motor ☐ A.C generator ☐ D.C generator ☐ Transformer
- xiii. The value of  $g$  at moon is less than that at surface of earth because.  
☐  $m_m > m_E$  ☐  $M_m = m_E$  ☐  $m_E > m_m$  ☐ None
- xiv. The density of mercury is \_\_\_\_\_.  
☐  $1000kgm^{-2}$  ☐  $2000kgm^{-3}$  ☐  $6000kgm^{-1}$  ☐  $136000kgm^{-3}$
- xv. The period of the pendulum depend on \_\_\_\_\_.  
☐ Mass ☐ Length ☐ Energy ☐ Amplitude
- xvi. If length of the pendulum is increased 4 times then its time period will \_\_\_\_\_.  
☐ Become half ☐ Doubled ☐ One fourth ☐ Increase 4time
- xvii. Which of the following is mechanical \_\_\_\_\_ wave.  
☐ Radio ☐ TV ☐ Sound ☐ Ultraviolet
- xviii. We cannot hear sound produced by pendulum because.  
☐ It cannot produce sound ☐ Its frequency is very high  
☐ It has frequency less than 20Hz ☐ None
- xix. If focal length of a lens is 20cm then its power will be.  
☐ 20D ☐ 10D ☐ 5D ☐ 2D
- xx. Both potential difference and emf has \_\_\_\_\_ units.  
☐ Same ☐ Different ☐ No ☐ None

**SECTION – B**

**Time 30: Minutes**

**Q2; Attempt any six (6) questions.**

**(30)**

- i. An object of mass 1kg is raised through height 5m in 10s. Find the power?
- ii. How would you make the rays from a luminous blub parallel by means of concave mirror?
- iii. Which material is more elastic steel or rubber and why?
- iv. How bats are able to fly at night time without colliding with each other.
- v. Why is it possible for a bird to perch on a high voltage wire without being electrocuted?
- vi. A beaker contains 200ml of water, what is volume of water in  $cm^3$  and  $m^3$ ?
- vii. Write any five properties of Alpha ( $\alpha$ ) Rays?

**CADET COLLEGE MAMAD GAT**  
**Entry Test Sample Paper for Class-VIII**

**Time 1 hrs**

**Paper: English**

**Total Marks 100**

**Note: Attempt all questions.**

**Q1; a) Fill in the blanks with correct prepositions.**

**(05)**

- i. He jumped \_\_\_\_\_ the river.
- ii. He was standing \_\_\_\_\_ the teacher.
- iii. We must adapt ourselves \_\_\_\_\_ the new circumstances.
- iv. She is always busy \_\_\_\_\_ her studies.
- v. The fight originated \_\_\_\_\_ a foolish quarrel.

**b) Write down the correct antonyms/opposite words.**

**(05)**

- i. Accept    ii. Dull    iii. Frequent    iv. Inhale    v. Barbarous

**c) Write the correct gender.**

**(05)**

- i. Swan    ii. Adam    iii. Bull    iv. Monk    v. Lord

**Q2; Use the following phrases in sentences.**

**(10)**

- i. Crown within.    Desist from    iii. Partial to    iv. Figure out    v. Shut up

**Q3; a) Rearrange the following into meaningful sentences.**

**(05)**

- i. Road did come you nearest the by?    ii. By Muslims ruled had been India the.
- iii. Through been have difficulties I many.    iv. Is the highest Mount Everest mountain.
- v. Bring monsoons the rain.

**b) Complete the following words.**

**(05)**

- i. Dir \_\_\_\_\_ ea    ii. Adv \_\_\_\_\_ tag \_\_\_\_\_ s
- iii. Aff \_\_\_\_\_ tio \_\_\_\_\_ te    iv. In \_\_\_\_\_ ellig \_\_\_\_\_ nt
- v. Nec \_\_\_\_\_ ss \_\_\_\_\_ ry

**Q4; a) Change the narration.**

**(10)**

- i. He said to the beggar, "Get out of the room".
- ii. Qadir said, "I shall see her today".
- iii. The wife said to her husband, "Donot smoke".
- iv. The old man said to me, "May you live long".
- v. He said to me, "You may go now".

**b) Change the voice.**

**(10)**

- i. Do not cross the border.
- ii. Was she throwing stones?
- iii. Has the wall been painted red by them?
- iv. Ahmad helps Ajmal.
- v. I have completed my work.

**Q5; Write an essay of 150-200 words on any one of the following.**

**(15)**

- i) Computer in the service of man    ii) Patriotism

**Q6; Write a letter to your father about your academic progress.**

**(10)**

**Q7; Translate into Urdu.**

**(10)**

- i. Trees are a great source of income and production for us.
- ii. The fair weather friends fall off in adversity.
- iii. Will it have been raining since morning?
- iv. How did you come by this watch?
- v. "Health is wealth".

**Q8; Translate into English.**

**(10)**

۲. جو نہی وہ انا لوگ اس پر ٹوٹ پڑتے تھے۔

۱. وہ اپنے قول کا سچا ہے۔

۳. اُس نے مجھ سے کھانا پکوا یا۔

۵. استاد نے سبق پڑھا یا۔

۴. کیا دو اور دو چار ہوتے ہیں؟