



CADET COLLEGE KARACHI
ENTRY TEST – CLASS-XI
FOR THE SESSION 2026-27

TIME ALLOWED:3.5 HOURS

MODEL PAPER

**Note: Syllabus of classes IX & X
will be followed.**

For office use only

SUBJECT	MAX. MARKS	MARKS OBT.			EXAMINER'S SIGN.
		SEC-1 OBJ.	SEC-2 SUB.	TOTAL	
ENGLISH	20	10	10		
G.K	20	10	10		
URDU	20	10	10		
ISLAMIAT/PAK STUDIES	20	10	10		
PHYSICS	40	20	20		
CHEMISTRY (P.E/P.M) / COMPUTER (G.S)	40	20	20		
MATHEMATICS (P.E/G.S) / BIOLOGY (P.M)	40	20	20		
Total	200				



Registration No. CCK: _____

Invigilator's Sign. _____

Date: _____

Scrutinizer's Sign: _____



*

INSTRUCTIONS:

1. *All questions are compulsory.*
2. *Answer all questions on the given sheet.
No Separate paper is required.*
3. *Use only blue/black fountain pen for attempting papers.*
4. *Black / Blue marker may be used for headings.*
5. *Cutting / Overwriting is not allowed, use of corrector/ink remover is strictly prohibited.*
6. *Use of **SCIENTIFIC** calculator/ mobile phones or any other electronic device is restricted.*
7. *Any violation can result ineligibility of the candidate.*



d. Why have you been deceived by them?

10. A cake was made by my mother yesterday. The correct active voice of it is ___?:

- a. My mother was making a cake yesterday
- b. My mother had made a cake yesterday
- c. My mother made a cake yesterday
- d. My mother had been making a cake yesterday



GENERAL KNOWLEDGE & INTELLIGENCE

Tick (✓) the correct answer option:

(_____/10)

- i. Shah Waliullah was born in _____ year
a) 1703 b) 1707 c) 1708 d) 1702
- ii. Democratic Government means:
a) Rule of King b) Rule of Party c) Rule of Society d) Rule of People
- iii. Waris Shah and Mian Muhammad Bakhsh were the Sufi poets of this language:
a) Sindhi b) Punjabi c) Balochi d) Kashmiri
- iv. _____ is the Education Minister of Sindh?
a) Saeed Ghani b) Imran Ismail c) Sardar Shah d) Murad Ali Shah
- v. Where was all India Muslim League Founded?
a) Dhaka b) Karachi c) Islamabad d) Lahore
- vi. When and where did Allama Iqbal present his historical Address?
a) 1934 Allahabad b) 1930 Allahabad c) 1937 Allahabad d) 1938 Allahabad
- vii. _____ was the 1st President of Pakistan:
a) Quaid-e-Azam b) Liaquat Ali Khan c) Iskander Mirza d) Ayub Khan
- viii. The Second Islamic Summit Conference was held in Lahore on _____.
a) 1970 b) 1972 c) 1974 d) 1976
- ix. This province of Pakistan is known as "Babul Islam".
a) Punjab b) Sindh c) Khyber Pakhtunkhwa d) Baluchistan
- x. The world's largest salt mine Khewra is in the Province of Pakistan:
a) Punjab b) Sindh c) Khyber Pakhtunkhwa d) Baluchistan



URDU

(___/10)

سوال نمبر 1. مندرجہ ذیل میں سے درست جواب منتخب کریں۔

1- ترکی کے سلطان کی طرف سے "تمغہ مجیدی" اس مصنف کو دیا گیا۔

☆ علامہ شبلی نعمانی ☆ ڈپٹی نذیر احمد ☆ محمد حسین آزاد ☆ الطاف حسین حالی

2- سوز وطن اور واردات ان کی تصانیف ہیں۔

☆ مرزا ادیب ☆ منشی پریم چند ☆ سعادت حسن منٹو ☆ علامہ شبلی نعمانی

3- یاخدا اور ماں جی ان کی تصانیف ہیں۔

☆ فرحت اللہ بیگ ☆ سرسید ☆ قدرت اللہ شہاب ☆ ڈپٹی نذیر احمد

4- لفظ "رعد" کے معنی ہیں۔

☆ گرج ☆ آسمانی بجلی ☆ کڑک ☆ طوفان

5- میر تقی میر نے وفات پائی۔

☆ کلکتہ ☆ لکھنؤ ☆ دہلی ☆ آگرہ

6- نظم "میدان کربلا میں گرمی کی شدت" صنف سخن کے لحاظ سے یہ ہے۔

☆ مرثیہ ☆ شہر آشوب ☆ قصیدہ ☆ آزاد نظم

7- مسلم لیگ کس نے قائم کی؟

☆ سرسید احمد خان ☆ نواب محسن الملک ☆ قائد اعظم ☆ نواب وقار الملک

8- دنیا میں قومیت کی تشکیل کی کتنی بنیادیں ہیں؟

☆ ایک ☆ دو ☆ چار ☆ آٹھ

9، سبق "نام دیومالی" کس کتاب سے لیا گیا ہے؟

☆ چند ہم عصر ☆ مقدمات عبدالحق ☆ بزم خوش نفساں ☆ خطبات عبدالحق

10- نظم "فاطمہ بنت عبد اللہ" کس شاعر کی تخلیق ہے؟

☆ علامہ محمد اقبال ☆ حفیظ جالندھری ☆ ظفر علی خان ☆ احسان دانش



ISLAMIYAT (FOR MUSLIM CANDIDATES ONLY)

(___ / 10)

سوال نمبر 1. مندرجہ ذیل میں سے درست جواب منتخب کریں۔

- i. نبی پاک ﷺ کی رحلت کے بعد بعض لوگوں نے انکار کیا:
☆ نماز ادا کرنے سے ☆ جہاد کرنے سے ☆ زکوٰۃ دینے سے ☆ حج کرنے سے
- ii. حسبک اللہ کا مطلب ہے:
☆ اللہ ان کا حساب لے گا ☆ ان کا حساب ہو گا ☆ اللہ آپ کے لئے کافی ہے ☆ حساب اللہ ہی لے سکتا ہے۔
- iii. حضور ﷺ کو قتل کرنے کا مشورہ دیا:
☆ سراقہ بن مالک ☆ ابو جہل ☆ ابو الاسود ☆ ابن ہشام
- iv. کاتب وحی اس صحابی کو کہتے تھے جو۔
☆ حدیث شریف لکھتے تھے ☆ قرآنی آیات لکھتے تھے ☆ تاریخ لکھتے تھے ☆ اقوال صحابہ لکھتے تھے
- v. قرآن کریم کو کتابی شکل میں لانے کی کمیٹی کے سربراہ تھے:
☆ حضرت عمرؓ ☆ حضرت عبدالرحمنؓ ☆ حضرت زیدؓ ☆ حضرت ابو بکرؓ
- vi. قرآن کریم کے الفاظ پر نقطے لگانے کا کام کیا:
☆ حضرت عمرؓ ☆ حضرت عثمانؓ ☆ حضرت علیؓ ☆ حجاج بن یوسف
- vii. مستضعفون سے مراد ہے:
☆ کمزور ☆ ناکام ☆ دگنا ☆ اچک لینا
- viii. الراشی کا مطلب ہے
☆ رشوت لینے والا ☆ رشوت دینے والا ☆ رشوت لینے والا اور دینے والا ☆ ان میں سے کوئی نہیں
- ix. افضل الاعمال ہے:
☆ توبہ کرنا ☆ استغفار کرنا ☆ کلمہ پڑھنا ☆ دعا کرنا
- x. غزوہ بدر لڑی گئی:
☆ ۱۶ رمضان ۲ھ ☆ ۱۷ رمضان ۲ھ ☆ ۱۷ رمضان ۳ھ ☆ ۱۶ رمضان ۳ھ



PAKISTAN STUDIES (FOR NON-MUSLIM CANDIDATES ONLY)

Tick (✓) the correct answer option:

(_____/10)

- i. Shah Waliullah was born in _____ year
*1703 *1707 *1708 *1702
- ii. Democratic Government means:
* Rule of King *Rule of Party *Rule of Society *Rule of People
- iii. Waris Shah and Mian Muhammad Bakhsh were the Sufi poets of this language:
* Sindhi *Punjabi *Balochi *Kashmiri
- iv. _____ is the Education Minister of Sindh?
*Saeed Ghani * Imran Ismail *Sardar Shah * Murad Ali Shah
- v. Where was all India Muslim league Founded?
* Dhaka *Karachi *Islamabad *Lahore
- vi. When and where Allama Iqbal presented his historical Address?
*1934 Allahabad * 1930 Allahabad * 1937 Allahabad * 1938 Allahabad
- vii. _____ was the 1st president of Pakistan:
*Quaid-e-Azam *Liaquat Ali Khan *Iskander Mirza * Ayoub Khan
- viii. The Second Islamic Summit Conference was held in Lahore on_____.
* 1970 * 1972 * 1974 *1976
- ix. This province of Pakistan is known as "Babul Islam".
* Punjab * Sindh * Khyber Pakhtunkhwa * Baluchistan
- x. The world Largest Salt Mine Khewra is in the Province of Pakistan:
* Punjab * Sindh * Khyber Pakhtunkhwa * Baluchistan



PHYSICS

Tick (✓) the correct answer option:

(_____/20)

- i. Sliding friction is _____ than rolling friction.
*Equal *Greater *Less *None of these
- ii. $\text{Kg m/s}^2 =$ _____:
*Pascal *Watt *Newton *Joule
- iii. One centimeter is equal to _____:
* 10^3 mm * 10^2 mm * 10^{-3} mm * 10^{-2} mm
- iv. A ball is dropped from the height of 80m. Find the time taken by the ball to reach ground:
*16 sec *4 sec *32 sec *None of these
- v. The product of mass and acceleration is called:
*Torque *Force *Momentum *Power
- vi. The magnitude of horizontal component of force is equal to:
* $F \sin \theta$ * $F \cos \theta$ * $F \sin \theta + F \cos \theta$ *None of these
- vii. There are _____ states of equilibrium:
*4 *1 *5 *None of these
- viii. A cone is resting on its side is in _____ equilibrium:
*stable *unstable *neutral *dynamics
- ix. Which one of the following is a scalar quantity:
*Force *Momentum *Energy *Torque
- x. One- joule is equal to:
*1N-s * N-s^2 *1 lb-m *1N-m
- xi. An object appear lighter in water because of one of the properties of matter:
*pressure *viscosity *Surface tension *Buoyancy
- xii. The degree of hotness and coldness of a body is called:
*Heat *K.E *Temperature *All of them
- xiii. A motion which repeats itself in equal intervals of time is called _____:
*Periodic Motion *Projectile Motion *Linear Motion *None of them
- xiv. The distance between two consecutive crest or trough is called:
*Wave length *Amplitude *Wave Energy *Wave Frequency
- xv. Light travels in a straight line in a _____ medium:
*Heterogeneous *Homogeneous *Both (a) and (b) *None of them
- xvi. The ratio between image size to object size is called:
*Diopter *Magnification *Focal length *Principal Focus
- xvii. The speed of light is _____ m/s.
* 3×10^6 * 3×10^8 * 3×10^{10} * 3×10^{-8}
- xviii. A light bulb with a current of 0.06 A is left burning for 15min. How much electric charge passes through the filament of bulb:
*45C *54C *5.4C *3 C
- xix. In p-type semi conductor, most of the current is carried by:
*Electrons *Protons *Holes *Both (b) and (c)
- xx. Which of the following is more penetrating:
* α -rays * β -rays * γ -rays *None of them



CHEMISTRY

(Pre-Eng & Pre-Med Only)

Tick (✓) the correct answer option: (____/20)

- i. **Group I-A elements are called:**
* Alkaline Earth Metals * Halogens * Alkali Metals * N.O.A
- ii. **Which of the following Scientist discovered electron?**
* J.J Thomson * John Dalton * J.J Berzelius * James Chadwick
- iii. **The molecular mass of pure water is:**
* 18 a.m.u * 20 a.m.u * 16 a.m.u * 22 a.m.u
- iv. **The process in which solid molecules directly converted into gaseous state is called as:**
* Sublimation * Evaporation * Boiling * Melting
- v. **Charge on an electron is?**
* $1.6 \times 10^{-16}C$ * $1.602 \times 10^{-17}C$ * $1.67 \times 10^{-18}C$ * $1.602 \times 10^{-19}C$
- vi. **Which Particle is the heaviest in the following?**
* Neutron * Proton * Electron * α -Particle
- vii. **Which of the following elements will burn in Oxygen to form an acidic Oxide?**
* Sodium * Sulphur * Phosphorus * Carbon
- viii. **Highest electronegative element is?**
* Fluorine * Chlorine * Bromine * Iodine
- ix. **Which pair of the following molecules has the same number of electron?**
* Na & Mg⁺ * CH₄ & NH₃ * Cl₂ & Br₂ * O₂ & N₂
- x. **The formula of Alum is:**
* K₂SO₄.Al₂(SO₄)₃.24H₂O * NaHCO₃ * Na₂CO₃ * Al₂(SO₄)₃.2SO₂
- xi. **The solubility of a gas _____ with the rise in temperature:**
* Increase * Decrease * Remains same * N.O.A
- xii. **The hardest form of coal is:**
* Peat * Lignite * Anthracite * N.O.A
- xiii. **Atomic Size & Atomic Radii _____ down the group.**
* Decrease * Increases * Remains Same * N.O.A
- xiv. **The sum of mole fraction of solute and solvent is equal to:**
* 0 * 1 * 2 * 4
- xv. **The transition temperature between rhombic and monoclinic Sulphur is:**



* 90°C

* 96°C

* 113°C

* 119°C

xvi. **The electrolyte in lead storage battery is?**

* Pb

* PbO₂

* HNO₃

* H₂SO₄

xvii. **The best disinfectant is?**

* Fluorine

* Chlorine

* Bromine

* Iodine

xviii. **By which process does the smell of cooked food spread in the surrounding?**

* Condensation

* Distillation

* Diffusion

* Decomposition

xix. **It is a heterogeneous mixture:**

* Solution

* Suspension

* Solute

* Solvent

xx. **When water is solvent the solution is called as _____ solution:**

* Saturated

* Unsaturated

* Super saturated

* Aqueous



COMPUTER

(General Science Only)

Tick (✓) the correct answer option:

(_____/20)

- i. Laser printer and ink-jet printers are the examples of _____ printers.
a) impact b) non-impact c) noisy d) none of these
- ii. Microprocessor and GUI are the invention of: _____ generation of computer.
a) 5th b) 3rd c) 2nd d) 4th
- iii. In which Operating System jobs are executed in groups:
a) Time Sharing b) Batch Processing c) Single User d) Real Time
- iv. _____ communication technology transmits information using electromagnetic waves like IR (Infrared), RF (Radio Frequency), satellite, etc.
a) Wired b) Bounded c) Wireless d) none of them
- v. _____ is the process of rearranging or reordering data based on different criteria like size, quality, value and quantity.
a) IF b) Sorting c) Filtering d) Alignment
- vi. Number of bits used in IPV4 are: _____
a) 8 b) 16 c) 32 d) 64
- vii. The loss of energy in transmission signal refers to : _____
a) Distortion b) Attenuation c) Noise d) None of them
- viii. The looks of sprite can be changed by using _____
a) script tab b) costume tab c) backdrop tab d) control tab
- ix. The device that converts soft copy into hard copy is:
a) printer b) speaker c) scanner d) projector
- x. A web browser will translate the codes in a web page if the extension of the document is:
a) docx b) txt c) html d) pdf
- xi. Processed form of data is called _____
a) text b) Protocol c) information d) communication
- xii. The service that is responsible for making websites publicly accessible through the internet is called
a) Web server b) Web browser c) Web site d) Web hosting
- xiii. To apply the table of contents automatically, the most important task is to properly define the.
a) level of heading b) page layout c) themes d) page no
- xiv. A _____ is a faded background image that displays behind the text in a document.
a) wrap text b) Water mark c) clip art d) none of them
- xv. _____ are the rules and procedures on which computers exchange data on network.
a) Protocol b) syntax c) Medium d) none of them
- xvi. Since it does not harm or steal data, the least harmful malware is:
a) Trojan b) Virus c) Adware d) Spyware
- xvii. In a database table of "Students", the address of the student will be a:
a) Entity b) Data type c) Record d) Field
- xviii. Every C++ program must have:



- a) cin b) cout c) main() d) none of these

xix. Simplified form of Boolean expression of $ABC + AB\bar{C} + \bar{A}B$ is _____

- a) \bar{B} b) C c) B d) A

xx. The Universal gate is:

- a) NAND Gate b) AND Gate c) OR Gate d) both b & c



MATHEMATICS

(Pre-Eng & General Science Only)

Q1. Tick (✓) the correct answer option: (_____/20)

- i. If $(x+2)^2 = x^2$ then $x =$ _____,
* 4 * 2 * -1 * -2
- ii. $(64)^{\frac{1}{6}}$
* 1 * $\frac{1}{2}$ * 2 * $\frac{1}{4}$
- iii. The scientific notation of 756837 is _____:
* 7.56837×10^{-5} * 7.56837×10^5 * 768.37×10^3 * None
- iv. $\frac{\sin x}{\cos x} =$ _____
* $\sin x$ * $\cos x$ * $\tan x$ * $\sec x$
- v. HCF of $x^3 + y^3$ and $x^2 - xy + y^2$:
* $x^2 - xy + y^2$ * $x - y$ * $x + y$ * None of these
- vi. $(a+b)^3$, degree: _____
* 0 * 3 * 2 * 1
- vii. _____ should be added to $x^2 + \frac{1}{x^2}$ to make it perfect square :
* xy * x^2y^2 * $2xy$ * 2
- viii. Solution of $a^2 + 4ay + 4y^2$ is :
* $x - y$ * $(a+b)$ * $(a+2y)^2$ * $(a-2y)^2$
- ix. Transpose of matrix is $\begin{bmatrix} -2 & 4 \\ 3 & -6 \end{bmatrix}$ is
* $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ * $\begin{bmatrix} -2 & 3 \\ 4 & -6 \end{bmatrix}$ * $\begin{bmatrix} -2 & -6 \\ 4 & 3 \end{bmatrix}$ * none of these
- x. The third term of the $xb^2 + 4ay + 4y^2$ polynomial is _____ .
* $4y^2$ * $4ay$ * xb^2 * $a2y$



- xi. $\log \frac{ab}{x} = \underline{\hspace{2cm}}$.
* $\log a - \log b - \log x$ * $\log a + \log b - \log x$ * $\log b - \log x$ * $\log a$
- xii. Two set is said to be if and only if they have same elements.
* Equivalent set * Null set * Equal set * Proper set
- xiii. A triangle having no side congruent is called .
* Equilateral * Acute triangle * Scalene * isosceles
- xiv. The chord which passes through the center of the circle is called .
* Radius * Arc-length * Diameter * In-center
- xv. $\log \frac{x^3 y}{z^2} = \underline{\hspace{2cm}}$:
* $\log x - \log y$ * $3 \log x + \log y - 2 \log z$ * $3 \log x$ * None
- xvi. The LCM of $9x^2$ and $15x$ is
* $24x^2$ * $45x^2$ * $135x^3$ * None
- xvii. The sum of two supplementary angle is
* 160 * 180 * 190 * 360
- xviii. The central angle of minor arc is than the inscribed angle of its corresponding major arc:
* less * Double * Half * equal
- xix. The simplest form of $\frac{a^5 b - ab^5}{a^3 b + ab^3} = \dots\dots\dots$
* $a^2 + b^2$ * $a^2 - b^2$ * $a + b$ * $a - b$
- xx. $\sqrt{1 - \cos^2 \omega} = \underline{\hspace{2cm}}$
* $\sin \omega$ * $\cos \omega$ * $\sin \theta$ * 1



BIOLOGY

(Pre-Med Only)

Tick (✓) the correct answer option: (_____/20)

- i. Increased quantity and quality of fish production:
a) Fisheries b) Forming c) Husbandry d) Forestry
- ii. Techniques for manipulation of gene to achieve desirable characters are called:
a) Morphology b) Genetics c) Biotechnology d) Environmental biology
- iii. It is defined as “the intelligent guess made by a scientist in the form of statement”.
a) Law b) Theory c) Hypothesis d) Experiment
- iv. Scientific reasoning moves from specific to general.
a) Inductive b) Both a and b c) Deductive d) Observation
- v. Structures have different functions (physiology) but having similar internal architecture.
a) Homologous b) Analogous c) Both a and b d) heterologous
- vi. The largest unit of classification is:
a) Species b) Class c) Order d) Kingdom
- vii. Father of taxonomy is:
a) Carolus Linnaeus b) Robert Hook c) Lee Mark d) Ernst Hackle
- viii. Which one of the following organelles involve in protein synthesis?
a) Mitochondria b) Golgi complex c) Chlorophyll d) Ribosome
- ix. Prokaryotic cell is found in:
a) Virus b) Bacteria c) Amoeba d) Paramecium
- x. Opening and closing of stomata is also regulated by
a) Light b) Air c) Water d) Carbon dioxide
- xi. Diffusion is a _____ process.
a) Active b) Passive c) Both a and b d) facilitated
- xii. Programed change which lead to sequence of physiological changes in cell by which cells commit suicide collectively called
a) Necrosis b) Cyclosis c) Apoptosis d) Amitosis
- xiii. Exchange of piece of chromatid in between homologous chromosome is known as:
a) Synapsis b) Crossing over c) Terminalization d) Charismata formation
- xiv. Activity of Enzymes can be Enhanced by
a) Activator b) Inhibitor c) Both a and b d) none of these



- xv. The lock and key model is proposed by:
a) Crick b) Daniel Koshland c) Emil Fischer d) Watson
- xvi. Enzymes are:
a) Proteins in nature b) Lipids in nature c) nucleic acids in nature d) Carbohydrates in nature
- xvii. Break down of food molecules to release energy in cell is called:
a) Photosynthesis b) Chemosynthesis c) Respiration d) protein synthesis
- xviii. Mustard plant belongs to which Kingdom?
a) Plantae b) Animalia c) Fungi d) Algae
- xix. Alcoholic and acidic fermentation are the types of _____ respiration.
a) Aerobic b) Anaerobic c) Both a and b d) facultative
- xx. The numbers of layers in the wall of an artery is:
a) Two b) three c) four d) five



Marks Obtained: _____ /10
Examiner's Sign : _____

اردو

(—/05)

سوال نمبر 1- کسی ایک عنوان پر مضمون تحریر کیجیے۔

1- کتب بنی بہترین مشغلہ
2- نوجوان نسل میں موبائل فون کے فوائد

عنوان: _____



Marks Obtained: _____ /10
Examiner's Sign : _____

اسلامیات

(صرف مسلمانوں کیلئے)

(—/05)

سوال نمبر 1- مندرجہ ذیل حدیث مبارکہ کا ترجمہ و تشریح تحریر کریں۔
من صلی علی مرّة فتح الله له باباً من العافیہ

(—/05)

سوال نمبر 2- مندرجہ ذیل حدیث مبارکہ کا ترجمہ و تشریح تحریر کریں۔
خَيْرُ النَّاسِ مَنْ يَنْفَعُ النَّاسِ

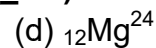
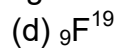
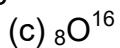
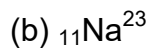
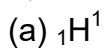


CHEMISTRY
(Pre-Eng & Pre-Med Only)

Marks Obtained: _____ /20
Examiner's Sign : _____

Q1. Write electronic configuration of the following:

(_____/05)



Q2. Define Molarity. Calculate molarity of 2 moles of H_2SO_4 in 4 liters of solution. (_____/05)



MATHEMATIC
(Pre-Eng & Gen.Science Only)

Marks Obtained: _____ /20
Examiner's Sign : _____

Q1. Solve the following by completing the square method: $px^2 + sx + t = 0$ (_____/05)

Q2. IF A and B are two non-singular matrices then show that in general (_____/05)

(a) $(A + B)^2 \neq A^2 + 2AB + B^2$

(b) Factorize $a^2 - b^2 - 2a + 1$



Q3. Find the solution set of any two of the following

(_____/05)

i) $|5x - 3| - 6 = 3$

(ii) Show that $\log_a \frac{75}{16} - 2\log_a \frac{5}{9} + \log_a \frac{32}{243} = \log_a 2$

Q4. Find HCF of $6y^3 + 5y^2 - 34y + 15$, $6y^3 - 37y^2 + 57y - 20$ and $3y^3 - 8y^2 - 31y + 60$
By division method. (_____/05)

