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This is for the information of the parents that a few vacancies for admission to the Class arise occasionally. These are purely merit-based admissions.

Admissions to these vacancies are finalized on the basis of the results of the written examination in the subjects of English, Urdu, Mathematics, Science and a subsequent interview. An oral test for Quran is conducted separately.

Syllabi for the written examination is given bellow:

ENGLISH: Essays/Composition of about 100 – 150 words:

Grammar: verbs, adverbs, articles, prepositions, Singular/ Plural, Masculine /Feminine, Auxiliary Verbs, Nouns (Proper, Common, Collective and Abstract), Pronouns (Personal, Relative, Reflexive and Indefinite) Synonyms, Antonyms, Similes, Active and Passive Voice, Present and Past Participles, Helping Verbs and Idioms etc.(Fill in the blanks, Match the columns, Identification, Underline the correct Part of Speech, Correct use of Verb, Correct subject and verb agreement etc.)

Writing Skills: Descriptive and Narrative Writings (Descriptive e.g. A Cricket Match etc.) (Narrative e.g. A House on Fire etc.) (about 100-150 words), **Letter** (Informal/Formal e.g. to friend/parents, sister/brother to spend holidays with you, to different departments i.e. Telephone, Wapda, Council to draw attention towards social issues etc.)

Application (Formal e.g. for the class renovation etc.), Story Writing(Moral/ Title: An honest woodcutter /Honesty is the best Policy, A thirsty crow / God helps those who help themselves etc.) Sentence making, Spelling (missing letters), Reading Comprehension (Q/Ans, etc.),

Tenses (Translation from Urdu to English, Present, Past and Future Indefinite, Continuous and Perfect)

MATHEMATICS: Domain-1 Numbers and Operations (Simplification, Sets, Rate, Ratio and Percentage, Financial Mathematics, Squares and Square Roots) **Domain-2** Algebra (Algebraic Expressions, Linear Equations) **Domain-3** Measurements (Distance Speed and Time Perimeter and Area) **Domain-5** Data Management (Statistics, Probability)

SCIENCE: Plant system (root system, shoot system, photosynthesis, respiration, transpiration), Human Respiratory and Circulatory System (breathing, respiration, blood circulation, blood), Immunity and diseases (immunity and its types, pathogens causing infectious diseases, parts of immune system), Structure of an atom (atom, shell or orbit, periodic table, atomic structure of first 18 elements), Physical and chemical changes (physical and chemical changes, Role of oxygen in natural chemical reactions, chemical equation, physical and chemical properties), Chemical bond (ions, valency, types of chemical bonds), Solutions (solutions and its components, Dilute and Concentrated solutions, Saturated and Unsaturated solutions, solubility), Force and Motion (force, unit of force, Relationship between speed, distance and time, Contact and Non-contact forces, Action and Reaction forces), Heat and temperature (heat and temperature, Applications of expansion and contraction, Modes of heat transfer)

Urdu:

مضمون، کہانی، درخواست، مکالمہ، متن (نظم و نثر) کی تفہیم / تشریح، مرکزی خیال، خلاصہ، الفاظ معانی، اسم معرفہ کی اقسام، اسم علم کی اقسام فعل ماضی کی اقسام اور حروف کی اقسام، متضاد، مترادف، متلازم، تشابہ، تذکیر و تانیث، اعراب، سابقے لاحقے، محاورہ، تشبیہ اور استعارہ ضرب الامثال، محاورات، رموز و اوقاف، جملوں کی درستی اور تکمیل، الفاظ کا جملوں میں استعمال۔

Quran:

(کل نمبر 25)*حفظ: سورۃ القارۃ * نماز مکمل مع ترجمہ، دعا: نماز کے بعد کی دعا رَبَّنَا آتِنَا فِي الدُّنْيَا حَسَنَةً وَفِي الْآخِرَةِ حَسَنَةً وَقِنَا عَذَابَ النَّارِ۔ مع ترجمہ مسنون دعائیں با ترجمہ

A list of successful candidates is displayed on the notice boards in their respective wings. The parents have to collect information sheets, books list, syllabi etc along with the prescribed Admission Form duly signed by the wing head. These forms along with the dues should be submitted in the Fee Section.

Only after the observance of the above-mentioned formalities, a student correctly attired in prescribed School Uniform and possessing the relevant books and stationery, is eligible to sit in the class.

NOTE: Model Question Papers are enclosed. Please note that **prescribed topic** are pure guidelines as per level VII for the preparation of Admission Test. Marks allocation and nature of questions in actual papers may vary in any subject.

Day/Date	Subject	Time
Sunday 11 th February 2024	Science	8:30 am to 10:30 am
	English	10:35 am to 12:35 pm
	Quran (Oral)	12:40 pm to 1:00 pm
Monday 12 th February 2024	Mathematics	8:30 am to 10:30 am
	Urdu	10:35 am to 12:35 pm

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MATHEMATICS

Time Allowed: 2hrs

Total Marks: 75

Note: Attempt the following questions on the Answer Sheet. Use of calculator is not allowed.

Part I

Q1. Encircle the correct answer.

/15

1	$8 - 4 \times 2 = ?$	8	4	2	0
2	() is known as ----- bracket	bar	curly	round	braces
3	Empty set is denoted by the symbol	\leftrightarrow	\subseteq	ϕ	β
4	The sets $\{0,1,2\}$ and $\{a,b,c\}$ are	subsets	empty sets	equal sets	disjoint sets
5	The set $A = \{x / x \in P \wedge 2 < x < 10\}$ is	$A = \{2,3,5,7\}$	$A = \{2,3,5\}$	$A = \{3,5,7\}$	$A = \{3,5\}$
6	If $5 : x :: 10 : 20$, then x is	5	10	15	20
7	The simplest form of 10:15 is	2:3	2:5	3:5	5:3
8	75% means	1/2	3/2	1/4	3/4
9	Which is perfect square	22	23	24	25
10	$5xy$ is a	monomial	binomial	trinomial	not a polynomial
11	$3x^2y \times 3xy^2 = ?$	$9x^2y^2$	$9x^3y^3$	$9xy$	$9x^4y^4$
12	$\frac{3x}{2} - 1 = 1$, then x is	0	1	3/4	4/3
13	The point $(-2,3)$ lies in the quadrant	I	II	III	IV
14	Perimeter of rectangle of sides 3cm and 4cm is	12cm	15cm	18cm	24cm
15	Probability of an impossible event is always	0	1	2	100

PART – II

Attempt all questions.

(12 × 5 = 60)

Q2. Simplify $\left[3\frac{2}{3} \div \left\{ 1\frac{1}{3} + \left(1\frac{2}{3} + 3\frac{2}{5} - 2\frac{1}{5} \right) \right\} \times 2\frac{3}{5} \right]$

Q3. If $U = \{1,2,3,4,5\}$, $A = \{1,2,3\}$, $B = \phi$, the Find $(A \cap B)^c$.

Q4 If 1 person takes 7 days to clean a house from bugs, how many days will take 7 people to clean the house from bugs?

Q5. Salman bought a sofa set for Rs. 25000 and sold it for Rs. 20000. Find its loss percentage.

Q6. Find the product of $2a^2 + 8b^2$ and $3a^2b + ab^2$.

Q7. Factorize $4x + 6xy - 2 - 12xy$.

Q8. Factorize $x^2 + 5x - 6$.

Q9. Solve $3(2x - 8) = 2x - 2(x + 3)$

Q10. Draw the graph of $x = 2$.

Q11. Find the surface area of cylinder of radius 3cm and height 4 cm.

Q12. Find the exterior angle of a regular polygon having sides, $n = 6$.

Q13. Two fair coins are tossed. What is the probability of getting two heads? Also find the complement of this event.

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SCIENCE

Time: 2 hrs

Total Marks: 75

OBJECTIVE TYPE

NOTE: Attempt all questions.

Q.1.(A). Four possible options are given for the following questions. Tick (✓) the correct answers. (15)

- The innermost layer of cortex in the root is:
(a) Epidermis (b) Endodermis (c) Pericycle (d) Cambium
- Trachea divides into two:
(a) Bronchi (b) Veins (c) Villi (d) Ribs
- Aerobic respiration takes place in:
(a) Mitochondria (b) Chloroplasts (c) Nucleus (d) Blood vessels
- Nuclear membrane is not found in:
(a) Plant cell (b) Animal cell (c) Bacterial cell (d) Fungal cell
- How many periods are there in the periodic table?
(a) Five (b) Six (c) Seven (d) Eight
- A gas produced on heating solid potassium chlorate is:
(a) Hydrogen (b) Carbon dioxide (c) Methane (d) Oxygen
- During combustion, a substance reacts with:
(a) Hydrogen (b) Water (c) Carbon dioxide (d) Oxygen
- Which of the following is a cation?
(a) H_2 (b) H_2O (c) CO_2 (d) NH_4^+
- The chemical bond between N_2 molecule is:
(a) Ionic (b) Single covalent (c) Double covalent (d) Triple covalent
- Which of the following is insoluble in water:
(a) Sodium chloride (b) Oil (c) Table salt (d) Baking powder
- The Earth's pull on the objects is called:
(a) Gravity (b) Frictional force (c) Electrostatic force (d) Magnetic force
- The bulb of the thermometer is filled with:
(a) Oil (b) Alcohol (c) Water (d) Salt

(B) Fill in the blanks.

(10)

- The products of respiration are carbon dioxide and _____
- Exchange of gases takes place in _____
- Billions of new blood cells are produced daily in _____
- The formula for maximum number of electrons in a shell is _____
- Freezing of a liquid is a _____ change.
- A bond formed by the mutual sharing of electron pair between bonded atoms is called _____
- A solution to which no more solute can be dissolved at a particular temperature is called a _____ solution.
- The quantity of matter in an object is called its _____
- The degree of hotness or coldness is called _____

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SBJECTVE TYPE

Note: Attempt all questions from **Part I** and **II**.

(Part-I)

Q.2. Write short answers to the following questions: (20)

1. Enlist the different chambers of heart.
2. Define transpiration
3. Write chemical equation for photosynthesis.
4. Define rusting.
5. What are pathogens? Give two examples.
6. Write the symbols of Sodium, Magnesium, Potassium and Helium.
7. What are bad conductors of heat?
8. What is solubility?
9. Define valency and give examples.
10. Differentiate between uniform speed and variable speed?

Part-II

- Q.3** (a) Describe the composition of blood. (6)
(b) Write a note on bacteria. (4)
- Q.4** (a) Describe the structure of an atom. (6)
(b) Differentiate between physical and chemical changes. (4)
- Q.5** (a) Describe convection and radiation as modes of heat transfer. (6)
(b) What are contact forces? Explain by giving examples. (4)

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Time Allowed: 2 hrs

English

Total marks: 75

Part I

Q1. (a) Write the plurals of the following nouns: (5)

- (a) louse _____
- (b) phenomenon _____
- (c) woman _____
- (d) runner-up _____
- (e) variety _____

(b) Fill in the blanks with everything, something, everyone or someone. (5)

- (a) There is _____ wrong with her.
- (b) I saw _____ coming down the stairs.
- (c) _____ went well at the party.
- (d) If _____ helps, the job will soon be done.
- (e) I always keep _____ to eat beside my bed.

(c) Underline auxiliary verbs in the given sentences: (5)

- (a) I had left a small village in the South of France.
- (b) I always do as I am told.
- (c) They have just arrived from Italy.
- (d) My brother is feeling/getting afraid of the dark.
- (e) Does anyone need any help?

(d) Identify Active or Passive voice and write the correct answer in the given space: (5)

- (a) Pandas are found in China. _____
- (b) The Police is chasing the thief. _____
- (c) The shop has not yet been closed. _____
- (d) We have lived here for ten years. _____
- (e) Some instructions were given by the instructor. _____

(e) Form adverbs from the following words: (5)

- (a) careless _____
- (b) quiet _____
- (c) fast _____
- (d) true _____
- (e) heavy _____

(f) Fill in the blanks with Present and Past participles of the following verbs: (6)

- | Base Form | Present Participle | Past Participle |
|------------------|---------------------------|------------------------|
| (a) climb | _____ | _____ |
| (b) stand | _____ | _____ |
| (c) know | _____ | _____ |



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(g) Write antonyms of the following words:

(4)

- (a) loss _____
(b) live _____
(c) sleep _____
(d) war _____

Part II

Q2. Write an essay/composition of about 150 words on any one of the following topics:

(10)

- (i) My Hobby (ii) A True Muslim

Q3. Write a letter to your friend inviting him/her on your birthday party.

(10)

OR

Write an application to the principal for the remission of fine.

Q4. Use the following words/phrases in sentences:

(5)

- (a) spectacular (b) peaceful protest (c) disgraceful conduct
(d) complain (e) extinct

Q5. Read the following passage carefully and answer the questions given below:

(10)

The beautiful valley of Kaghan lives in Hazara district in the Frontier Province. Tourists enter Kaghan from Abbottabad, from where they first go to Balakot, and then on to Kaghan village, which has given the valley its name. Next to Kaghan village is Naran which is 8100 feet high. Near Naran is the famous Saif-ul-Muluk Lake. Here the view is unforgettable. Clouds hang low. The surface of the lake is crystal clear. The

snow-clad peaks rise in the east. A number of glaciers slide down in the lake and supply water to it throughout the year.

1. Where does the Kaghan valley lie?
2. From where do the tourists enter?
3. What is next to Kaghan village?
4. Where is the famous lake?
5. What is the height of Naran valley?

Q6. Translate the following sentences into English:

(5)

1. وہ سکول جائے گا۔
2. سارا کپڑے دھو چکی ہے۔
3. کیا تم خط لکھتی ہو؟
4. بلی دودھ نہیں پی رہی تھی۔
5. کیا استاد نے بچوں کو پڑھایا؟

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کل نمبر ۷۵

پرچہ: اُردو

وقت: 2 گھنٹے

مندرجہ ذیل سوالات کے جوابات جوابی کاپی پر تحریر کیجیے۔

(15)

سوال نمبر ۱۔ ایک جامع اور مربوط مضمون لکھیے جو کم از کم ۰۵ سطروں پر مشتمل ہو (نادیدہ)
مثلاً: خدمتِ خلق

(10)

سوال نمبر ۲۔ درج ذیل عبارت میں خط کشیدہ الفاظ کے مترادف تحریر کیجیے۔
قوموں کی ترقی و..... میں علم و..... کا کردار بہت اہم ہے۔ اسی کی بدولت جہالت اور..... ختم کر کے قوم کو غفلت اور..... سے نجات دلائی جاسکتی ہے۔ علم انسان میں عفو و..... عاجزی و..... حلم و..... اور سوجھ..... پیدا کرتا ہے۔ علم انسان کو نظم و..... سکھاتا ہے اور معاشرے کی اصلاح میں معاون..... ثابت ہوتا ہے۔

(5)

سوال نمبر ۳۔ درج ذیل عبارت میں سے فعل ماضی بعید، فعل ماضی شکیہ اور فعل ماضی تمنائی کے استعمال والا جملہ تلاش کر کے لکھیے۔
سبکدوشی شکار کو جا رہا تھا کہ اُسے ہرن کا بچہ نظر آیا۔ اُس نے ہرن کے بچے کو پکڑنے کے لیے گھوڑا دوڑایا۔ کچھ دیر میں ہرن کا بچہ اس کے قابو میں آگیا، لیکن سبکدوشی نے دیکھا کہ اُس بچے کی ماں بھی پیچھے پیچھے آئے گی۔ اُس نے سوچا ہوگا کہ وہ بچے کے ساتھ ہی جائے گی۔ سبکدوشی کو رحم آگیا۔ اُس نے ہرنی کا بچہ آزاد کر دیا۔ کاش! رحم دلی کا یہ جذبہ ہماری پہچان بنا رہتا۔

(10)

سوال نمبر ۴۔ درج ذیل عبارت میں سے خط کشیدہ الفاظ کے معانی لکھیے اور اس کی سلیس اُردو لکھیے۔
کہا جاتا ہے کہ انسان ایک معاشرتی حیوان ہے۔ وہ معاشرے میں رہنے پر مجبور ہے۔ اُسے قدم قدم پر دوسروں کے سہارے کی ضرورت پڑتی ہے۔ انسان وہی ہے، جو دوسروں کا خیر خواہ اور ہمدرد ہو۔ اگر انسان دوسروں کے دکھ درد کو اپنا دکھ درد نہیں سمجھتا، تو وہ انسان کہلانے کا حق دار نہیں۔

(5)

سوال نمبر ۵۔ درج ذیل محاورات کے معانی لکھیے اور جملوں میں استعمال کیجیے۔

(10)

پالا پڑنا، آب آب ہونا، کشتوں کے پستے لگانا، باغ باغ ہونا، پھولے نہ سمانا

(5)

سوال نمبر ۶۔ فرض کیجیے کہ آپ کا دوست / سہیلی اکثر جھوٹ بولتا ہے۔ ایک مکالمے کے ذریعے یہ واضح کیجیے کہ جھوٹ برائی کی جڑ ہے۔ (نادیدہ)

نمبر شمار	جملے	اسم معرفہ کی قسم
1	جو شور مچا رہا ہے اسی کو سزا ملے گی۔	
2	علی نے پھول توڑا اور اسے گلدان میں سجایا۔	
3	محمد بن قاسم فاتح سندھ ہے	
4	وہ بچہ رورہا ہے۔	
5	راجا عزیز بھٹی کو نشان حیدر سے نوازا گیا۔	

(5)

سوال نمبر ۸۔ درج ذیل الفاظ پر اعراب لگا کر تلفظ واضح کیجیے۔

(10)

استقبال، محبت، تغیر، صبر، مصور
سوال نمبر ۹۔ درج ذیل نظم / عبارت کو پڑھیے اور آخر میں دیے گئے سوالات کے جواب دیجیے۔ (نادیدہ)
بہت مخلص اور پاک بندے خدا کے
نشان جن سے قائم ہیں صدق و صفا کے
نہ شہرت کے طالب، نہ خواہاں ثناء کے
نمائش سے بیزار، دشمن ریا کے

ریاضت سب اُن کی خدا کے لیے ہے

مشقت سب اُس کی رضا کے لیے ہے

س ۲۔ مخلص لوگ ہر کام کیا سوچ کر کرتے ہیں؟

س ۱۔ ان اشعار کا مرکزی خیال کیا ہے؟

س ۵۔ ان اشعار کے لیے عنوان تحریر کیجیے۔

س ۴۔ ان اشعار کا خلاصہ لکھیے۔

س ۳۔ خدا کے مخلص بندے کن باتوں سے نفرت کرتے ہیں؟

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