THE PUNJAB SCHOOL
ADMISSION TO CLASS VIII

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 are as follows:

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

Grammar: use of verbs, adverbs, articles, prepositions, Singular/ Plural, Masculine /Feminine, Auxiliary Verbs, Nouns (Proper & Common, Collective, Abstract), Pronouns (Personal, Relative, Reflexive, Indefinite) Synonyms, Antonyms, Similes, Active and Passive Voice, Present and Past Participles, Helping Verbs, 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.)

Composition: Descriptive and Narrative Writings (Descriptive e.g. A Cricket Match etc.) (Narrative e.g. A House on Fire etc.) (about 100-150 words), **Letter** (Formal/Informal 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(Morals: Honesty is the best Policy, 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: Union and intersection of sets, sub sets, set difference, complement of a set, Venn diagram, square root and cube root, direct and inverse proportion, Algebraic expressions and polynomials, addition, subtraction, multiplication and division of polynomials. Use of formulae $(a+b)^2 = a^2 + 2ab + b^2$, $(a-b)^2 = a^2 - 2ab + b^2$, $a^2 - b^2 = (a+b)(a-b)$ and $(x+a)(x+b) = x^2 + (a+b)x + ab$, factorization by taking common, by mid term breaking and by formula $a^2 - b^2$, Solution of linear equations, perimeter and area of square, rectangle, Parallelogram, trapezium, triangle and circle. Volume of cubes, cuboids. Ratio, rate and speed and word problems related these. Angle properties of polygons and problems related to their interior and exterior angles.

SCIENCE: Temperature and Heat, Transfer of heat, Plant tissues and organs, Transport in plants, Leaves, Osmosis, Transporting food, Structure of Flower. Chemical symbols, The arrangements of electrons, The periodic table, Atoms, molecules and chemical formulas, Chemical reactions, Types of chemical reaction, How sounds travels, Sounds as a wave, Speed of sound, High and low, loud and quiet, Acids, Alkalis, Indicators and acid strength, Neutralization, Useful neutralization reactions, Light rays and shadows, Reflection of light, Refraction of light, Refraction in lenses, Colours of spectrum, Mixing coloured lights, The heart, Blood, Blood vessels The pumping cycle, Heart diseases,

Urdu:

* **تخلیقی تحریر:** مضمون، خط، درخواست، کہانی، مکالمہ، متبادل جملے، تفہیم عبارت، بنیادی گرامر (مکمل) (متضاد، مترادف الفاظ، غلط فقرات کی درستی و تکمیل، الفاظ کا جملوں میں استعمال، واحد، جمع، مذکر مونث، اعراب لگانا، الفاظ معانی، محاورات، عبارت کی سلیس اردو ۔

Quran:

(کل نمبر25) * ناظرہ: پارہ نمبر20اور21،* حفظ: سورۃالقارعۃ * نماز مکمل مع ترجمہ، دعا: نماز کے بعد کی دعا رَبَّنَآ اٰتِنَا فَی الدُّنیَا حَسَنَۃً وَّفِی الاٰ خِرۃِ حَسَنَۃً وَّقِنَا عِذَابَ النَّارِ۔

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 purely 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 17th February 2019	Mathematics	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 18th February 2019	Science	11:00 am to 12:30 pm
	Urdu	12:35 pm to 2:05 pm

MODEL PAPERS FOR ADMISSION TO CLASS VIII
MATHEMATICS

Time Allowed: 2hrs   Total Marks: 75

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

Part I

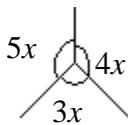Q1. Give Short answers: **(10 × 2=20)**

(i)   Factorize: $14cx + 10dy - 4cy - 35xd$

(ii)   Solve $\dfrac{1}{2} = \dfrac{1}{y+2} - 1$

(iii)   Find the value of x.

(iv)   Write the formula to find the sum of interior angles of a n – sided polygon.

(v)   Write all subsets of $A = \{a,b,c\}$
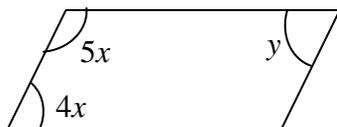
(vi)   Find the volume of a cuboid with edges 1.5cm, 0.7cm and 3.9cm.

(vii)   Evaluation $\sqrt[3]{343}$.

(viii)   Calculate: $10\dfrac{1}{2}\%$ of Rs. 98

(ix)   Factorize: $x^2 - 4y^2$
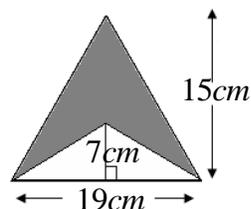
(x)   Find the value of x and y.

Part II

Q2.   (a) 20 men can repair a road in 16 days. In how many days 35 men will repair the road.   **(5+5)**

(b) Three partners divide the profit of Rs. 6720 among themselves in the ration 2:3:7. What is the biggest share of profit.

Q3.   (a) Find the total surface area of a solid cube of volume 125cm^3.   **(5+5)**

(b) Find area of shaded region of the triangle

Q4. Find the value of x.   **(10)**
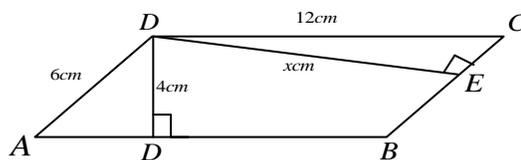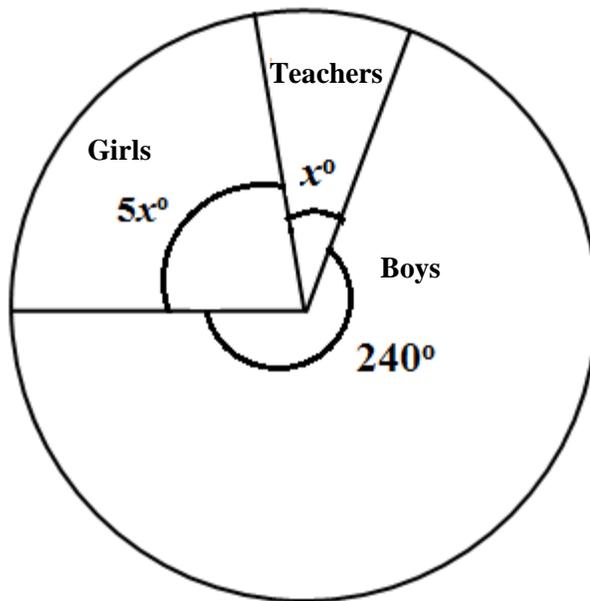

Q5. (a) Factorize $x^2 - 12x + 35$ (b) Divide $x^2 - 17x + 72$ by $x - 9$ (c) Factorize $25x^2 - 36y^2$ **(5+5+5)**

Q6. (a) Solve $\sqrt{x-2}+6=5$ **(5+5)**

   (b) (i) Find x^o.

      (ii) If there are 45 Teachers then find the number of Boys and number of Girls in the school.

MODEL PAPER FOR ADMISSION TEST TO CLASS VIII
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)

1. Heat energy is measured in…
   (a) degrees   (b) joules   (c) newtons   (d) pascals
2. Which of these does the kinetic theory NOT explain?
   (a) condensing of steam   (b) evaporation of water
   (c) heat coming from the Sun   (d) melting of ice
3. What does the stem of a plant do?
   (a) absorbs minerals   (b) carries food up to the leaves
   (c) makes seeds   (d) supports the plant above the ground
4. What are vascular bundles made of?
   (a) phloem only   (b) xylem only   (c) xylem and phloem   (d) none of these
5. The female reproductive organ is called.
   (a) carpel   (b) style   (c) ovary   (d) stamen
6. Ice melting is an example of ……………………… change.
   (a) chemical   (b) contemporary   (c) physical   (d) permanent
7. The chemicals involved in a chemical reaction are called:
   (a) inputs   (b) outputs   (c) products   (d) reactants
8. The frequency of sound is measured in:
   (a) hertz   (b) meters   (c) ohms   (d) pascals
9. Sound cannot pass through a:
   (a) gas   (b) liquid   (c) solid   (d) vacuum
10. What is produced when an alkali is added to a strong acid?
    (a) a salt only   (b) a salt and water   (c) a strong acid   (d) water only
11. Which of the following pH numbers indicates a strong alkali?
    (a) 1   (b) 5   (c) 7   (d) 14
12. Which of the following contains an acid?
    (a) bleach   (b) distilled water (c) vinegar   (d) washing powder
13. Which of these materials can light travel through?
    (a) luminous   (b) opaque   (c) transparent   (d) translucent
14. What is the scientific name for a flat mirror?
    (a) convex   (b) concave   (c) plane   (d) reflective
15. The splitting of light into different colours is called:
    (a) deflection   (b) dispersion   (c) dispersal   (d) dispensation

(B) Fill in the blanks.   (10)

1. Leaves are where a plant makes food during ………………………..
2. The anther is where …………………. is made.
3. iron + oxygen → ……………………... .
4. Energy is always given out or taken in during a ……………………… change.
5. A sound wave is an example of ………………………
6. Animals such as bats and dogs can detect ……………………
7. When an acid is mixed with large quantity of water, it is called …………… acid.
8. Acids have a pH of ……………….than 7.
9. The objects which give out their own light are called ……………………..
10. Rough surfaces reflect light in …………………. direction.

SBJECTVE TYPE

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

(Part-I)

Q.2. **Write short answers to the following questions:** **(20)**
1. What is osmosis?
2. Why are flowers important to a plant?
3. What is the easiest way of writing a chemical equation?
4. Is burning endothermic or exothermic? Give a reason.
5. How are sounds made?
6. What is meant by pitch?
7. Where does the acid that causes tooth decay come from?
8. Name four things that make up blood.
9. How fast does light travel?
10. What does the circulatory system consist of?

Part-II

Q.3 (a) Explain what is meant by double circulation. (2)

(b) List four things that affect the rate of transpiration. (4)

(c) Explain how vascular bundles support a plant? (4)

Q.4 (a) What is: (i) a hydrocarbon? (ii) an oxide? (4)

(b) Give one way that combustion and respiration are i) the same ii) different. (3)

(c) Give two differences between a physical change and a chemical change. (3)

Q.5 (a) By what is the strength of an acid measured? (2)

(b) Write any three properties of alkalis. (3)

(c) Explain the difference between the strength and the concentration of an acid. (5)

MODEL PAPERS FOR ADMISSION TO CLASS VIII
ENGLISH

Time Allowed: 2 hrs   Total marks: 75

Part I

Q1. (a) Write the plurals of the following.   **(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 from the following statement.   **(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 afraid of the dark.

   (e) Does anyone need any help?

(d) Identify Active or Passive voice and write the correct answers in the boxes.   **(5)**

   (a) Pandas are found in China.   _____

   (b) 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	_____	_____

(g) Fill in the blanks with the antonyms of the following.   **(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)**

        (a) My Hobby   (b) 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 to make their meanings clear. **(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 fomous 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)**

١۔ وہ سکول جائے گا۔

٢۔ سارا کپڑے دھو چکی ہے۔

٣۔ کیا تم خط لکھتی ہو؟

٤۔ بلی دودھ نہیں پی رہی تھی۔

٥۔ کیا استاد نے بچوں کو پڑھایا؟