Cadet College Palandri AJ&K

G Science for Entrance Test Class VIII,

a. Paper Pattern

Total Marks 75		Tir	Time 1:30hrs		
Q:1	MCQs	15	15 Marks		
Q2:	Fill in the Blanks	15	15Marks		
Q:3	Short questions	15	45 Marks		

b. **Syllabus**

1. Structure of atom

Atomic Number, Mass Number, Electronic Configuration, Symbols of normal elements.

2. Physical and chemical changes

Reversible and irreversible changes, rusting, combustion, physical and chemical properties of matter

3. Chemical Bonds

Valencies of normal elements, Ions and its types, Writing a chemical formula, Formulas of common acids and bases, Chemical bonds (Covalent and Ionic Bonds)

4. Plants System

Tissues in plants, Plant organs and their structure, transportation system in plants, Translocation, photosynthesis and respiration, minerals required by plants

5. Respiratory System

Human respiratory system, Mechanism of breathing, Cellular respiration, diseases of respiratory system

6. Circulatory system

Components of circulatory system and their functions, blood circulation in human body, composition of blood

7. Immunity and diseases

Pathogens and their types, Vaccines, Parts of immune system, immunity and its parts, infectious diseases

8. Force and Motion

Force, S. I Unit of Force, Effects of force, Types of force, Action-reaction pair of forces, Motion (Speed, distance, time), Distance time graph

9. Waves and energy

Waves and energy, Types of waves, Properties of waves and their interrelation, properties of sound waves, Factors that effect sound properties

10. Heat and Temperature

Thermal expansion and contraction of solids, Effects of thermal expansion and contraction on solids, Applications of thermal expansion and contraction of solids, Thermal expansion and contraction of liquids, Effects of thermal expansion and contraction of liquids, Applications of thermal expansion of liquids, Thermal expansion and contraction of gases, common scales of temperature, Modes of heat flow, Methods of thermal insulation

11. Earth and space

What keeps planets revolving, Gravity ,mass and weight, gravitational force of moon, earth movements and its effects, The effect of earth's rotation on the length of days and nights, Formation of seasons.

Cadet College Palandri AJ&K

Modal Paper for Entrance Test Class VIII

Total Marks 75 Time 1 hr Subject: G. Science

Q.1 Choose the correct option.

atomic mass are called_____

15

P.T.O

S	Statement	Α	В	С	D
No					
1	The number of ATP molecules are produced	1	2	4	8
	molecules are produced during glycolysis are				
2	Which one is the viral	Cholera	Tetanus	Typhoid	Polio
	disease?			5	
3	Which structure of plant transport sugar	Mesophyll cells	Lower xylem	Phloem	Xylem
4	Antibodies are	Phagocytic cell	Dendritic cell	Proteins	Lipids
5	Which gas would increase in the atmosphere if there	Oxygen	Nitrogen	Hydrogen	Carbon oxide
	would be no photosynthesis				
6	SI unit of force is	Newton	Meter	Kilogram	Kilometre
7		10N	5N	8.8N	16N
_ ′	The gravitational force on a body of mass 1 kg is	IUN	SIN	O.OIN	ION
8.	Pitch of sound waves	Loudness	Frequency	Wavelength	Amplitude
	depends on				
9.	Speed of sound at 0°C is	332m/s	3320 m/s	33200m/s	320 m/s
10	0°C is equals to	212°F	0°F	32 ⁰ F	272°F
11	Pressure cooking of food	Increase	Decrease	Keep	Permanent
	its boiling point			constant	decrease
12	The electronic configuration	Н	0	CI	Ne
	is 2, 8, 7 write the symbol of				
	this element				
13	Which type of bonding is	Ionic	Covlant	Coordinate	All of these
	present in carbon dioxide			covalent	
14	Which atom s non metal	Be	С	Mg	Rb
15	Freezing of water is	Sublimation	Chemical	Physical	Both B & C
	change.				
Q2.	Fill in the blanks with suitable words. 15				15

1. The plants tissues which conduct water and minerals is called _____ 2. is essential to make chlorophyll which give green colour to leaves. 3. The structure in the lungs where exchange of gases takes place is called____ 4. The outer covering of heart is known as _____ 5. Salmonella typhi causes _____ SI unit of speed is _____ 6. Sound and water waves are _____waves. 7. 8. Particles of longitudinal waves move_____ 9 Mass is amount of____ in an object. The process of flow of heat without the flow of the particles of the medium is 10. called Non metals are _____electronegative than metals. 11. 12. The Molecular formula of acetic acid is _____ 13. Name of specie OH is_____ 14. A molecule made of different atoms is called ____ 15. The elements comprised of different atoms having same atomic number but different

1	Name three types of ground tissues and their functions.	2	What is importance of transpiration?	
3	Write down causes and symptoms of emphysema?	4	What do you know about systemic, pulmonary and coronary circulation?	
5	Write down the symptoms of corona virus disease?	6	Define SI unit of Force.	
7	Differentiate between mass and weight.	8	Define gravity.	
9	Why are metals good thermal conductors?	10	Time period of a wave is10 seconds. What is its frequency?	
11	Why atoms are considered as neutral particles before reaction?	12	Why elements in periodic table are arranged in increasing order of atomic no? Write its purpose.	
13	Which type of atoms always form covalent bond when combine with each other?		How can you explain that rusting is a chemical change?	
15	Why different metals have different thermal conductivity?			

Cadet College Palandri AJ&K English for Entrance Test Class VIII.

Marks: 75

- **A.** Composition: paragraph/latter/Story Writing etc.
- **B.** Comprehension: Question based on a given passage or passages.
- **C.** Translation: from Urdu to English and English to Urdu.
- **D.** Applied Grammar: Any type of suitable question objective our subjective, covering different aspects of grammar, for example: singular and plural, masculine and feminine, Comparative and superlative, correction of spelling, tenses, the use of tenses and the sequence of tenses, filling in blanks with articles, prepositions, adjectives, adverbs, parts of speech, simple punctuation, direct and in direct, active and passive voice etc.

CADET COLLEGE PALANDRI AZAD KASHMIR

Class: VIII Time: 1hr Marks: 75

Read the following passage carefully and answer the questions given at the end in your own words.

In early 1900, two Wright brothers flew their first man made Aeroplane in the air. Wright family lived in Ohio, America. They ran a family business of bicycles. These two little kids at the age of 7 and 11 used that shop to build their first plane. Both brothers did not attend any school, but they learned a lot about aviation. So, they used that knowledge to construct Aeroplane. When the first time in the history of mankind, they tried to fly their first plan in the air, people did not believe in them. The newspapers and media did not notice their efforts, but some newspapers had made headlines like," They are either flyers or liars". Their first Aeroplane stayed in air only 20 second and flew 200 feet only. People in America did not believe in them. So, they moved to Europe and flew their Aeroplane to show and entertain people. All sudden they became famous. In 1910 they came back to America as heroes.

10

Questions

- What was the business of Wright brothers? i)-
- How much time did the plane stay in the air? ii)
- In which school did Wright brothers study? iii)
- Give a suitable title to this passage. iv)
- When did they return to their homeland? v)
- How old were the kids when they did first experience? vi)
- Q: 2 Change the following sentences into indirect speech.
 - 1. Mother said to the daughter, "Go and change your dress."
 - 2. Asif said, "I had read this book before I gave it to you."
 - 3. Amjad said, "I will bring my piano."
 - 4. The officer told the clerk, "Bring me that file."
 - 5. Maria asked, "Where is your watch?"
- Choose which part of speech the highlighted word is. 10
 - 1. She was wearing really beautiful earrings.
 - 2. Wow, you have got a great score.
 - 3. The baby crawled under the bed.
 - 4. She quickly packed her bag and left.
- 5. This is a depressing time to be living in London as people are arguing over the election.
- Q: 4 Rewrite the following sentences by correcting them. 10
 - 1. Amir is brave than his friends.

 - The mans purse was lost in the bus.
 The boy studied when his father came home from work.
 - 4. Do he have any idea where he is going?
 - 5. Have you ever being to Lahore?
- Write a paragraph on one of the following topics. Q:5 10 Friendship Islamic Festivals (iii). My Ambition (ii).
- Write a story on the moral "Do good and have good". Q:6 10
- Correct the following spellings and rewrite them. Q:7 05

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Q:8 Translate the following sentences into English.

 اس نے کہا کہ وہ میری مدد کر ے موسم سرما شروع ہو چکا ہے۔ -1 گا ۔ ہمیں بڑوں کی نصیحت پر عمل کرنا چاہیے۔ 4۔ یہ شاہراہ عام نہیں ہے۔ -3 دو اور دو چار ہوتے ہیں۔ -5

Cadet College Palandri AJ&K Maths for Entrance Test Class VIII

Mathematics

A. Arithmetic

Marks: 75

- 1. Faction and Decimal & Recurring.
- 2. Parentage Zakat
- 3. Average
- 4. Ratio and proportion
- 5. Profit and Loss
- 6. Square Roof.

B. Sets

- 1. Definition and representation of sets
- 2. Kinds of sets. Intersection and Union of sets

C. Algebra

- 1. Substitution
- 2. Operation with Algebraic Expressions, Addition, Multiplication, Division-their properties and uses of Brackets.
- 3. Algebraic Sentences
- 4. Equation and Solution

D. Geometry

- 1. Definition of simple geometrical terms.
- 2. Construction and bisection of angles (with compass)
- 3. Division of line segment into given number of parts.
- 4. To draw perpendicular to a line from a point outside or on it.
- 5. To draw parallel lines.
- 6. Construction of triangle, square, parallelogram etc.
- 7. Area of rectangle, square, circle etc
- 8. Surface area of cylinder, surface area of cone.
- 9. Volume of cube, cuboids, cylinder and cone etc.

Cadet College Palandri AJ&K Modal Paper for Entrance Test Class VIII

Subject: Maths Total Marks 75 Time 1 hr

Q.1 Attempt the following questions.

 $9 \times 5 = 45$

- 1. Area of circular field is 7453m² find its radius.
- 2. 12 men can do a job in 20days. How long will 10 men take to complete the same job?
- 3. Verify commutative property of intersection for the following sets.

 $X = \{x/x \text{ is a letter in the Word Gujarat}\}$

Y = {y/y is a letter in the Word Gujranwala}

- 4. Sum of two numbers is 30 and their difference is 4 find the numbers.
- 5. Construct a scalene triangle DEF such that \overline{EF} = 4.8cm, \overline{DF} = 4.5cm and \overline{DE} = 5.1cm
- 6. Find surface area of a sphere having r = 14cm.
- 7. Factorize $4x^2 + 8xy + 4y^2 36z^2$
- 8. Solve $-x + \frac{1}{2}y = -9$, x y = 12
- 9. Divide $12x^3 + 12x^2 x 2$ by 2x + 1

Note: Attempt the following questions.

 $3 \times 10 = 30$

1. If $U = \{x / x \in W^{\land} x \le 15\}, A = \{x / x \in N^{\land} x < 15\}$

 $B = \{x/x \in W \land x \le 14\}$ then verify that $(A \cap B)' = A'UB'$

- 2. a. The length of rectangular field is two and half of its width if area of rectangular field is 50625cm² find its perimeter.
 - b. Expand and simplify $(a b)^2 + (2a + 2b)^2$
- 3. (a). Construct a rectangle when two sides are 5cm and 3cm.
 - (b). Construct a square whose measure of side is 5.5cm.

نصاب اردو برائے داخلہ جماعت بشتم

انشاء

بيانيم مضمون (كتابيات، شخصيات، سائنس، سماجيات، سياسيات، معاشيات، اقتصاديات اور تعليم ير مبنی مضامین ہو سکتے ہیں).

تفهيم عبارت

2- تفہیم عبارت ، کوئی بھی پیرا گراف پڑھ کر اس کے سوالات کے جوابات لکھنے ہوں گے۔

تشكيل عبارت

تشکیل عبارت ، کوئی سے دو مصر عوں کی تفہیمی عبارت بنائیں ۔ شعرا ء کے زبان زد عام اشعار، محوحیرت ہوں کہ دنیا کیا سے کیا ہو جائے گی۔ عملی قواعد

کہاتی یا مکالمہ (ذاتی کاوش سے ہر قسم کی کہانی یا مکالمہ ہو سکتاہے)۔ -4

بناوت اور معانى كي لحاظ سي أسم كي اقسام اور مثالين ، فعل كي اقسام، فعل ماضى كي اقسام، اسم ظرف كى اقسام، فعل معروف ، فعل مجهول

نصاب اسلامیات برائے داخلہ جماعت ہشتم

کل نمبر 15

الف: مندرجہ ذیل قرآنی سورتیں کا بامحاورہ ترجمہ تحریہ کریں. (بر سورت سے پہلے) بِسُمِٱللهِ ٱلرَّحْضَ الرَّحِيمِ لكهنا ضروری ہے۔

1. سورة الفا تحم 2 . سورة النصر 3. سورة العصر 4. سورة اخلاص 5. سورة الفلق 6. سورة الناس 7. سورة الكوثر

عقائد اسلام ب .

-2

ارکان اسلام حضرت محمد کی حیات طیبہ -3

حجتم الوداع -4

نماز کے ارکان -5

> میثاق مدینہ -6

غزوه بدر، غزوه احد،غزوه خندق، صلح حديبيم، فتح مكم **-**7

> فتح مكم -8

ماڈل پیپر اردو برائے داخلہ جماعت ہشتم

وقت : 30:1گھنٹہ كل نمير 75

مضمون نویسی (15)

سوال نمبر 1:درج ذیل عنوانات میں سے کسی ایک پر سیر حاصل مضمون لکھیں۔ میں بڑا ہو کر کیا بنوں گا ؟ ۔ معاشرتی رسوم و رواج ، دیہی و شہری زندگی، عجانب گھر، کسان کے شب وروز، شجر کار ی کے فواند اور کٹاؤ کے نقصانات ، تاریخی عمارات کی سیر، آثار قد یمہ اور قدیم تبذیبیں، سماجی سرگرمیاں، غربت کے مسائل ، تعلیمی ماحول میں عمارت کا کردار، ماحولیاتی آلودگی کی اقسام ، باغبائی کے فواند،

تفهيم عبارت

سوال نمبر 2: دی گنی عبارت کرو غور سے پڑھیں اور دنیے گنے سوالات کے جوابات اپنے الفاظ میں لکھیں۔

مثلاً: ﴿ زندگی کے ہر شعبے میں نظم وضبط کی پابندی ضروری ہے۔ وہ لوگ جو نظم وضبط کو اپنا شعار بناتے ہیں۔ ان کی زندگی سکون سے گزرتی ہے جبکہ نظم وضبط کی پروا نہ کرنے والوں کی زندگی سے سکونی اور انتشار کا نمونہ پیش کرتی ہے۔ زندگی میں وہی لوگ کامیاب ہوتے ہیں جواپنے کام کی منصوبہ بندیکرتے ہیں اور وقت کو بہترین انداز میں صرف کرتے ہیں۔ نظم وضبط کے بغیر زندگی میں کونی کامیابی حاصل نہیں کی جا سکتی۔ نظم و بہتریں اندار میں صرحہ کرتے ہیں۔ اس وہ اوگ جو نظم وضبط کے عادی ہوتے ہیں کامیابی اُن کے قدم چومتی ہے۔ ضبط کی پابندی کامیابی کی دلیل ہے ۔ وہ لوگ جو نظم وضبط کے عادی ہوتے ہیں کامیابی اُن کے قدم چومتی ہے۔ سوالات ۔ 1۔ کن لوگوں کی زندگی سکون سے گزرتی ہے ؟ کیا نتیجہ نکلتا ہے؟

عبارت کے مطابق زندگی میں کون سے لوگ کامیاب ہوتے ہیں؟ 4. نظم و ضبط کی پابندی کسی چیز کی دلیل ہے؟

درج بالا عبارت كا خلاصه اور عنوان لكهين.

تشكيل عبارت

درج ذیل مصرعوں میں سے کسی ایک پر مختصر تفہیمی عبارت بنانیں ۔ سوال نمير 3۔

*کچھ کر لو نوجوانو اُٹھتی جوانیاں ہیں *محوحیرت ہوں کہ دنیا کیا سے کیا ہو جانے گی۔ *بچے ہمارے عبد کے

سوال نمبر 4. نااتفاقی کا انجام کے زیر عنوان کہانی لکھیں ۔ یا دو دوستوں کے درمیان امتحان کی تیاری کے موضوع پر مکالمہ لکھیں۔ 10

قواعد اردو /گرائمر

سوال نمبر 5 الف: درج ذيل پانج الفاظ و محاورات كو بامعنى جملوں ميں استعمال كريں .

10 = 5 + 5

، ہاتھ دھو بیٹھنا ، کمر کسنا ، موت کے منہ میں جانا ، عمل درآمد، سبقت، سرخرو نقل مكانى كرنا ب) درج ذیل فقرات کی درستی کریں ۔

ہر شہری اپنے ملک سے محبت کرتی ہے (2) بچے کا ناک بہہ رہا ہے ۔ پیٹ میں شدید درد ہو

سانرن بجتے ہی ساری کلاس چوکنی ہو گنی ۔ كليات -6 یہ بچی اچھی گاتی ہے ۔ -5 غالب چهپ گيا۔

چغلی کرنا بری بات ہے -8 سرخ سیاہی سے لکھنا درست ہے ۔ سوال نمبر 6. اسم علم كي اقسام كي تعريف لكهين اور مثالين دين.

15 حصہ اسلامیات

سوال : سورة الفلق يا سورة الفاتحہ كا بامحاورہ ترجمہ كريں۔

سوال: خطبہ حجتہ الوداع کے اہم نکات تحریر کریں۔ یا حقوق العباد کی اہمیت پر مفصل نوٹ لکھیں۔ 8
