

# CADET COLLEGE KOHAT

## Syllabus for 8<sup>th</sup> Class Entry Test

The following updated syllabus for the Entry Test in 8<sup>th</sup> Class is designed to provide the candidates fair information and general guidance about appearing in the selection examination of Cadet College Kohat. The candidates will be evaluated in the written test of the following subjects. There will be three papers. Each paper will be of one hour, including English, Mathematics and Urdu cum Islamiyat as:-

<u>Subject</u>	<u>Marks</u>
English	100
Mathematics	100
Urdu / Islamiyat	100 (70 + 30)

### PAPER: ENGLISH

1. Writing an Essay on the given topic.
2. Paragraph writing/Letter/Application/Creative Story writing/Dialogue.
3. Reading Comprehension of a passage with the given questions.
4. Applied Grammar and Vocabulary.
  - a. Parts of Speech.
  - b. Use of Idioms, Proverbs, Phrases and Homophones.
  - c. Tenses and their use in sentences.
  - d. Vocabulary/Correct spellings/Gender/Singular, Plural/Synonyms, Antonyms/Prefixes, Suffixes.
  - e. Correct/Rearrange/Complete Sentences/Negative and Interrogative sentences.
  - f. Change of Narration/Active and Passive voice.
  - g. Translation from English into Urdu and vice versa.

### PAPER: MATHEMATICS

- (1). **Arithmetic** Addition, Subtraction, Multiplication and Division of Common, Compound and Decimal fractions.
- (2). **Algebra** Addition, Subtraction, Multiplication, Division and Values calculation of Algebraic expressions / equations. Factorization by using formula ( $a^2 + 2ab + b^2$ ,  $a^2 - 2ab + b^2$ ,  $a^2 - b^2$  and Mid term break)
- (3). **Sets** Types of Sets, Descriptive, Tabular and Set builder notation, Union, Intersection and Complement of sets, Commutative, Associative and De Morgan's laws.
- (4). **Equations** Solution of Simultaneous Linear Equation in two variables and fraction equation in one variable.
- (5). **Geometry** Construction of Line, Angle, Triangle, Rectangle, Square and Parallelogram.
- (6). **Real life problems** Ratio and Proportion, Square root, Profit and Loss, Percentage, Area and Cost
- (7). **Area, Perimeter and Volume** Square, Rectangle, Circle, Cylinder, Cube, Cuboid, Cone and Sphere
- (8). **Information Handling** Frequency distribution, Mean, Median, Mode, Pie graph and Histogram
- (9). **Intelligence** Verbal and Non Verbal

- ۱۔ حضور ﷺ کی مکی زندگی      ۲۔ حضور ﷺ کی مدنی زندگی      ۳۔ خلفاء راشدین کا تعارف