

في القراءة والتحليل: المطلوب التركيز على المهارات الآتية:

- التعريف بالفنون الأدبية الآتية: القصة - الوصف الموضوعي والوصف الوجداني .
- التركيز على : النمط السردى ومؤثراته - بنية السرد القصصي - النمط الوصفي ومؤثراته -
- الجملة الإنشائية والجملة الخبرية - الصور البيانية (الاستعارة والتشبيه) - الأفكار الرئيسة .
- في القواعد: اسم الفاعل - اسم المفعول - المبتدأ والخبر - الأفعال الناقصة - الأحرف المشبهة بالفاعل - المصادر السماعية والقياسية .

Academic Year : 2016-2017

Class : BE8 →BE9

Entrance Exam

English

Reading

Skills:

1. Plot element
2. Making inferences
3. Sequence
4. Conflict and resolution
5. Point of view
6. Mood
7. Context clues
8. Figure of speech
9. Sensory details

Grammar

1. Tenses:
 - a. Present: simple , progressive, and perfect
 - b. Past : simple , progressive and perfect
 - c. Future: simple and progressive
2. Subject verb agreement
3. The passive voice
4. Adjective clauses
5. Adverb Clauses
6. Coordinating conjunction

Writing

1. Summarizing
2. Essay writing

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Entrance Exam

Math

Subject: Required concepts for Math Entrance exam.

1. **Square roots**: To recognize the square roots of a positive number and to find the square roots of a perfect square.
2. **Special parallelograms**: Identify (Parallelogram - rectangle - rhombus - square) and their properties.
3. **Remarkable identities**: Expanding and Reducing.
Know the expanding of $(a+b)^2$; $(a-b)^2$ and $(a+b)(a-b)$
Complete an algebraic expression to form a perfect square
4. **Factorization**: Find a common factor in an algebraic expression
Use remarkable identities to factorize an algebraic expression.
5. **The circle**: Know the relative positions of a line and a circle – Determine the centers of the circles passing through two points and through three non- collinear points - Recognize and calculate the length of an arc of a circle – Know the relative positions of two circles.
Know and use the relation between central angle, inscribed angle, interior angle, exterior angle and the arcs they intercept. Identify a right triangle as a triangle inscribed in a semi-circle.
Calculate the area of a circular sector.
6. **Trapezoid – Midsegment Theorem**.
Know and use the properties of a right and isosceles trapezoid.
Know and use the midpoint theorem and its converse in a triangle and a trapezoid.
Recognize a right triangle from the median relative to the hypotenuse.
7. **Equations**: Solve equations of the type $ax = b$ and of the type $(ax + b)(cx + d) = 0$.
Transform equations of the form $x^2 + bx + c = 0$ into the form $x^2 - p = 0$ (where $p > 0$) and then solve.
Solve word problems.
8. **First-degree inequality in one unknown**.
Solve and represent the solution of an inequality on a number line if possible.
Use inequality to solve problems.
9. **Pythagorean theorem**: Know and use Pythagorean theorem and its converse - height of an equilateral triangle - hypotenuse of a right isosceles triangle – properties of a semi-equilateral triangle.
10. **Fractional expressions**: Determine the values of the variable that define fractional expression.
Carry out operations on fractional expression. – Simplify fractional expression.
11. **Proportionality**: Solve problems involving directly proportional quantities.
Solve problems involving inversely proportional quantities.
12. **Statistics**: Frequency, relative frequency, cumulative frequency and angles in degrees.