

- محور الإنسان والعلم.
- محور التفاعل الثقافي بين الشعوب.
- مراجعة المهارات الآتية: استقراء الحواشي- تقنية التلخيص – وظيفة الكلام- تقنية الضبط شرح العبارات وربطها بالسياق.
- دراسة الأنماط: التفسيري- البرهاني.
- كفاية التعبير وكتابة المقالة العلمية – والمقالة الأدبية.

Academic Year : 2016-2017

Class : SE2 →SE3 Sciences

Entrance Exam

English

Reading

1. Finding main idea and details
2. Identify
 - a. types of support
 - b. thematic relationship
 - c. types of texts
 - d. purpose –audience and tone
 - e. types of organization of a text or paragraph
 - f. sentence summary and paraphrasing
 - g. vocabulary on context
3. drawing inferences
4. making conclusions
5. evaluating the message of a reading text
6. connecting to personal experience
7. Vocabulary in context

Writing

1. Personal narrative
2. Problem analysis
3. Persuasive
4. Summary and response
5. Expository (process, cause effect, advantages and disadvantages, comparison contrast and definition)

Academic Year : 2016-2017

Class : SE2 Sc. → GS/SE

Entrance Exam

Math

Chapters and concepts required:

Second degree equation.

Equation of a circle.

Orthogonality in space.

Trigonometric Formulas.

Permutations.

Probability 1.

Numerical sequence.

Sign of a quadratic function.

Functions.

Probability 2

Academic Year : 2016-2017

Class : SE2 Sc. → LS/GS /SE

Entrance Exam

Physics

Mechanics :

- Motion of a particle in a plane
- Newton's 2nd Law of motion and its applications
- System of particles
- Rotational Dynamics
- Work & Energy

Electricity :

- Electric Field
- Capacitors

Academic Year : 2016-2017

Class : SE2 Sc. → SE3

Entrance Exam

Chemistry

- 1- Oxidation and reduction
- 2- Oxidation Reduction potential
- 3- Preparation of solutions
- 4- Titration



Academic Year : 2016-2017

Class : SE2 Sc. → SE3 SC.

Entrance Exam

Biology

National Textbook: Life Science Secondary Education Second Year Scientific Section

I- DNA, Genetic Information and Cell Cycle

- The karyotype
- Mitosis
- The Structure and the Chemical Components of Chromosomes
- Cell Cycle

II- Protein Synthesis and Enzymatic Activity

- Proteins, an association of amino acids
- The gene, structure and Information Unit
- Transcription
- Translation
- Fate of the Synthesized Proteins
- Specificity and Mechanism of Enzyme Action

III- Biological Identity and Genotype

- Phenotypes and Proteins
- Genes and alleles (mutation)
- The Genotype