

SYLLABUS FOR STD. 12 2016-2017 (Science)

ENGLISH LANGUAGE

1st terminal exam:-

- Total English for XII unit 1 to 6
- Report writing
- Compositions

2nd terminal exam:-

- Total English for XII Unit 7 to 11
- Report writing
- Composition

Practicals

1. To verify ohm's law for the given unknown resistance
2. Determine the resistance of 100cm of constant an wire using a metre bridge

2nd term

SecA- 1. Magnetism 2. Electro magnetism

SecB- 1. Ray optics and optical instrument

SecC- 1. Nuclear energy 2. Semi conductor devices

Practicals

1. To find the focal length of a convex lens by U-V method
2. To find the focal length of convex lens by displacement method.

3rd term

SecA- 1. Communication system

SecC- 1. A.C circuit

Practicals:- Revision of 1st and 2nd term practicals

CHEMISTRY

1ST. term exam:-

1. Relative molecular mass and mole (solid state) state of matter
2. Cmchemical equilibrium
3. Chemical kinetics
4. Co- ordination compounds
5. Alkyl and aryl halide
6. Bio- molecules

Practicals:-

1. Titration 2. Detection of anion and cat ion

2nd term Exam:-

1. Ionic equilibria chemistry of P-block elements
2. Preparation, manufacture, properties and uses of compounds of gr16 and 17
3. Alcohols and phenols.
4. Ether and carbonyl compounds.

Practicals:-

1. Group analysis carboxylic acid , phenol, aldehyde, ketones and alines
2. Rate of reactions
3. Titration of acid base

3rd term

1. Carboxylic acid and acid derivatives
2. Cyanides, isocyanides, nitro compound, amino and diazonium salt.
3. Chemistry of transition and inner transition elements(d and f block elements)
4. Electrochemistry

Practicals:-

1. Rate of Reactions
2. Titration of acid base

BIOLOGY

1ST TERM

SecA:- origin of life and evidences of evolution theories of evolution

SecB:- Anatomy of flowering plant

1. Absorption
2. Photosynthesis
3. Reproduction and development in angiosperms

SecC:- Application- crop improvement, biotic community, bio diversity, bio fertilizers.

Practicals:-

1. Family- malvaceae , Solanaceae, Capitulum
2. Slide preparation (dicot and monocot root , stem)
3. Physiological experiment-
Imbibition , Transpiration , plasmolysis , Chromatography , osmosis

2nd term

SecA:- Genetics (all)

SecB:- Human diseases

Practicals:-

1. Family- solanaceae (Datura) , leguminaceae (sweet pea)
2. Physiological (all experiment on hydrilla)
3. Slides- dicot, monocot leaf
4. Germination of pollen grain
5. Comments on experimental set ups

3rd term

SecA:- Evolution of man

SecB:- Human reproduction

SecC:- Adolescent , Biomedical engineering , human population , animal husbandry

Practicals:-

1. Family- liliaceae (onion)
2. Spotting- permanent slides
3. Type of inflorescence
4. Flower adapted to pollination

MATHEMATICS

1st term

1. Sec A
 1. Determinants
 2. Integration
 3. Matrices
 4. Differentiation
 5. Probability
 6. complex numbers
 7. Correction and regression
1. Sec B:- Vectors
2. Sec C:-
 1. Discount
 2. Application of derivatives in commerce & Economics
 3. Index number & moving average

2nd term

1. Sec A
 1. Conics
 2. Definite integral
 3. Maxima & minimum
 4. Boolean algebra
 5. Differential equation
 6. Integration
2. Sec B
 1. Vectors
 2. Straight line in space
 3. Annuities

Note:- All chapter of 1st term will be included

3rd term

1. Inverse trigonometric functions
2. Application of definite integral
3. Indeterminate form
4. SecB- planes
5. mean value theorem
6. SecC:- Liner programming

Note:- All chapter of 1st term and 2nd term will be included

COMPUTER SCIENCE

1st term exam.

A. Data structure contd

- i. Circular Queue
- ii. Double ended queue
- iii. Linked list algorithm
- iv. Tree

B. Inheritance

- i. Abstract class
- ii. Interface

C. Complexity of an

- i. Big o notation

2nd term Exam

A. Boolean algebra cont.....

- i. Multiplexer , Demultiplexer
- ii. Encoder, Decoder

B. Proposition logic

C. Exception handling cont.....

D. File Handling

3rd term Exam :- Revision of complete syllabus

ECONOMICS

1ST Term Exam :

UNIT-I : MICRO ECONOMIC THEORY

- 1) Demand & Shift of Demand
- 2) Consumer's Equilibrium
- 3) Elasticity of Demand

UNIT-II : INCOME AND EMPLOYMENT

- 11) Income Determination

UNIT-III : MONEY & BANKING

- 13) Money : Meaning &
- 14) Commercial Banks & Central Banks

UNIT-V : PUBLIC FINANCE

- 17) Fiscal Policy
- 18) Govt. Budget and Concept of Deficit

2nd Term Exam :

UNIT-I : MICRO ECONOMIC THEORY

- 4) Supply & Elasticity of Supply

- 5) Equilibrium Price

- 6) Simple Application of Tools of Demand & Supply
- 7) Concept of Product & Production Function
- 8) Cost & Revenue

- 10) Market Forms and Equilibrium of the Firm

UNIT-IV : BALANCE OF PAYMENTS AND EXCHANGE RATE :

- 15. Balance of Payments
- 16. Foreign Exchange Rate

UNIT-VI : NATIONAL INCOME

- 19. Circular flow of Income

3rd Term Exam :

UNIT-I : MICRO ECONOMIC THEORY

- 9) Producer's Equilibrium
- 10) Consumer's Equilibrium
- 11) Elasticity of Demand

UNIT-II : THEORY OF INCOME AND EMPLOYMENT

- 12) Problems of Deficient and Excess Demand

UNIT-VI : NATIONAL INCOME

- 20) Concepts of National Income
- 21) Measurement of National Income

COMMERCE(XII)

1ST Term Exam :

- i) Business environment
- ii) Financing
- iii) Management – Meaning, nature & Importance
- iv) Principles of Management

2nd Term Exam :

- i) Foundation of Management & Co-ordination
- ii) Planning
- vii) Controlling
- iv) Organizing
- v) Staffing
- vi) Directing

3rd Term Exam (Pre-Board):

- i) Marketing
- ii) Marketing Mix
- iii) Consumer Behaviour

